

Pilkington Glass of Canada
PILKINGTON CANADA LTD.
1000 Highway 26, Collingwood, Ontario L9Y 4V8

Toxic Substance Reduction Plan Summaries
Public Report

Phase 1 : Methanol
Phase 2 : Particulate Matter 10 microns
Phase 2 : Particulate Matter 2.5 microns

Ver. 1

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Phase 1 : Methanol

Phase 2 : Particulate Matter 10 microns

Phase 2 : Particulate Matter 2.5 microns

Toxics Reduction Act & Ontario Regulation 455/09

Ver. 1

February 25th, 2014

Toxic Substance Reduction Plan Summaries

As required under the Toxics Reduction Act and Ontario Regulation 455/09

Phase 1 : Methanol

Phase 2 : Particulate Matter PM10 & PM2.5

Basic Facility Information

Pilkington Glass of Canada, Pilkington Canada Ltd. (Pilkington) produces automotive windshields from purchased glass. The main facility activities include manufacturing, assembly, shipping, receiving, and warehousing. The facility operates 24 hours per day, seven days per week and no incidents out of the normal course of events occurred at the facility during 2011 or 2012. This report is specific to Phase 1 and Phase 2 substances. It therefore uses 2011 calendar year data for the Phase 1 substance Methanol and 2012 calendar year data for the Phase 2 Substances Particulate Matter PM10 (10 microns and less) and PM2.5 (2.5 microns and less). Methanol present in the manufacturing process is a TRA Phase 1 substance and an NPRI Part 5 Speciated VOC in excess of 1 tonne, through its significant contribution to the total emission of NPRI Part 4 substance; Volatile Organic Compounds. Natural gas combustion and dust collector operation are also emission sources of TRA Phase 2 substances; Particulate Matter PM10 and PM2.5.

Pilkington is committed to environmental sustainability and operates its facility to ISO 14001 EMS standards. More information is available at www.nsg.com/sustainability.

Facility Identification and Address

Facility Name: Pilkington Glass of Canada

Location: 1000 Highway 26, Collingwood, Ontario L9Y 4V8

NPRI Identification Number: 4522

Two Digit NAICS Code: 32 Four Digit NAICS Code: 3272

Six Digit NAICS Code: 327215 – Glass Product Manufacturing From Purchased Glass

Number of Full-time Employees: ~ 249

UTM Spatial Coordinates: (NAD83-Zone17) 564926 mE: 4927220 mN (front entrance)

Operator Name

Name: Pilkington Canada Ltd.

Address: 1000 Highway 26, Collingwood, Ontario L9Y 4V8

Phone Number: (905) 455-8340

Fax Number: (905) 455-8370

CCRA Business Number: 103372942

Toxic Substances for Which Facility Must Prepare Plan

Substance 1: Methanol CAS Number: 67-56-1 (TRA Phase 1)

Substance 2: Particulate Matter; ≤ 10 microns (PM10) CAS Number: N/A-M09 (TRA Phase 2)

Substance 3: Particulate Matter; ≤ 2.5 microns (PM2.5) CAS Number: N/A-M10 (TRA Phase 2)

Public Contact

Name: Gordon Neil, Environmental, Health and Safety Manager
 Address: 1000 Highway 26, Collingwood, Ontario L9Y 4V8
 Phone Number: (705) 445-4780 ext. 276 Fax Number: (705) 445-3122
 E-mail: gordon.neil@nsg.com

Statement of Intent

After careful and due consideration of its operations and with ongoing commitment to its environmental sustainability intents, Pilkington does not intend to reduce the use, creation or release of the toxic substances.

Objective of the Plan

Having no viable options available for reduction, no implementation for substance reduction will be made under this plan.

Target & Timeline

Pilkington is unable to reduce the use of the toxic substances and therefore has no targets or timelines for the Plan.

Description of Toxic Substance Use

The three toxic substances; Methanol, Particulate Matter 10 microns and less (PM₁₀), and Particulate Matter 2.5 microns and less (PM_{2.5}) are released to air through the combustion of natural gas, operation of dust collector systems, and the use of methanol in process.

Methanol (CAS# 67-56-1) (TRA Phase 1)

[Methanol] Release to Air from facility process

- released from one major process at the facility (negligible ancillary use)
- Methanol is the single qualified Speciated VOC (TRA Phase 2) used at Pilkington, though it is already a Phase 1 toxic substance for TRA planning

Particulate Matter; ≤ 10 microns (PM₁₀) (CAS# - N/A-M09) (TRA Phase 2)

[PM₁₀] ; and,

Particulate Matter; ≤ 2.5 microns (PM_{2.5}) (CAS# - N/A-M10) (TRA Phase 2)

[PM_{2.5}] Release to Air from Combustion of Natural Gas & Dust Collector

- have common quantifications

In the production process, methanol in solution is sprayed onto windshield glass. Methanol, being a volatile substance, vapourizes upon spray application, escaping as emissions to air. The other solution ingredient produces dust which is collected to a dust collector that releases some PM₁₀ and PM_{2.5} to air. Natural gas combustion for a process furnace, as well as comfort

heating and cooling is shipped to the plant via pipeline. Combustion creates and emits PM10 and PM2.5 to air.

TRA Summary Table

TOXICS REDUCTION ACT - PUBLIC REPORTING

PILKINGTON GLASS CANADA, COLLINGWOOD

SUBSTANCE	CAS No.	TRA	REPORTING	UNITS	USED	CREATED	CONTAINED	ONSITE RELEASES			DISPOSAL		OFFSITE
		PHASE	YEAR					IN PRODUCT	AIR	LAND	WATER	ONSITE	OFFSITE
Methanol	67-56-1	1	2011	tonnes	10 - 100	-	-	10 - 100	-	-	-	-	-
Particulate Matter ?10 microns PM10	N/A - M09	2	2012	tonnes	-	0 - 1	-	0 - 1	-	-	-	-	-
Particulate Matter ? 2.5 microns	N/A - M10	2	2012	tonnes	-	0 - 1	-	0 - 1	-	-	-	-	-

Description of Options

Product specifications and clients' needs combined with uncertain market conditions limit the technical feasibility of options. As a result, there are no options made under this plan.

Implementation of Option

With no options for the reduction of the Substances there is no plan for implementation.

These Toxic Substance Reduction Plan Summaries accurately reflect the Plans they summarize.

Plan Confirmations

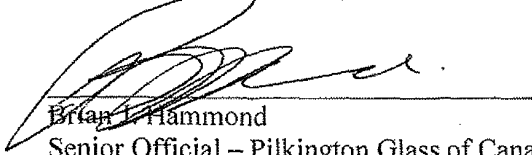
Due to the lateness of the submission of these Plans with regards to the regulatory deadlines, certifications may not be stated, rather confirmations are required and provided here;

TOXIC SUBSTANCE REDUCTION PLAN

PILKINGTON GLASS OF CANADA, PILKINGTON CANADA LIMITED – COLLINGWOOD, ON

As of February 27, 2014, I, Brian Hammond, confirm that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with its contents, and to my knowledge the plans are factually accurate and comply, with the exception of the regulatory deadline, with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

[Methanol, PM10, PM2.5]



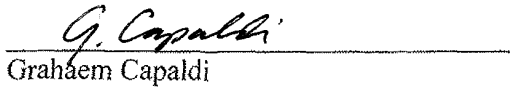
Brian L. Hammond

2/27/14.
Date

Senior Official – Pilkington Glass of Canada, Pilkington Canada Limited – Collingwood
(Highest Ranking Employee)

As of February 27, 2014, I, Grahaem Capaldi confirm that I am familiar with the processes at Pilkington Glass of Canada, Pilkington Canada Limited that use or create the toxic substances referred to below, 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 Feb. 25th, 2014 and that the plans comply, with the exception of the regulatory deadline, with that Act and Ontario Regulation 455/09 (General) made under that Act.

[Methanol, PM10, PM2.5]



Grahaem Capaldi

0063
TSRP#

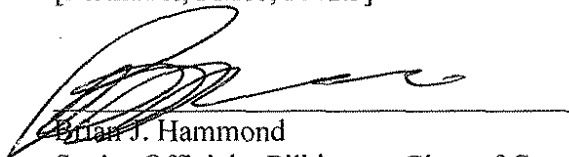
Feb. 27, 2014
Date

President - Environmental Reporting Systems Limited (Toxic Substance Reduction Planner)

Rationale for Lateness of Submission

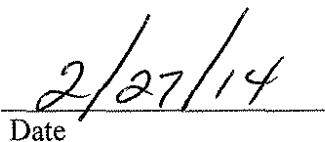
The process of initiating the Toxic Substance Reduction Planning was began at a late date due to great uncertainty in the business direction for our facility due to market conditions. Business orders were *not confirmed* and pressure to maintain quality and timely production of existing orders led to reduced resources for planning. The review of the supporting data for the reporting requirements then revealed that some estimates provided had led to improper quantities being reported and to complications in the planning process. Access to information from outside sources required to confirm details and research reduction potential reduction options was also at times a frustrating process. Throughout the planning process the toxic substance reduction planning consulting firm retained to assist Pilkington Glass of Canada was required to work within their workloads, which to some degree delayed the finalization of the plans. Though the business outlook for our facility is still uncertain, we have completed the Toxic Substance Reduction Plans for the Substances listed here;

[Methanol, PM10, PM2.5]



Brian J. Hammond

Senior Official – Pilkington Glass of Canada, Pilkington Canada Limited – Collingwood
(Highest Ranking Employee)



Date