

Toxic Reduction Plan Summary

Substance

Substance Name and CAS #	PM10, CAS# N/A-M09 PM2.5 CAS# N/A-M10
Substances for which other plans have been prepared	None
Reasons for Use	This substance is not used at the facility
Reasons for use - summary statement (mandatory)	N/A
Reasons for Creation	Created as a by-product
Reasons for creation - summary statement (mandatory)	Created as a by-product of natural gas combustion, manufacturing activities and material handling
Date	December 13, 2013

Facility Information

Company Name	National Silicates
Facility Name	Toronto Site
Facility Physical Address	429 Kipling Ave, Etobicoke, ON M8Z 5C7
Facility Mailing Address	Same as physical address
Spatial Coordinates of Facility	43.6068 Latitude; -79.5191 Longitude
Number of Employees	24
NPRI ID	10279
Ontario MOE ID Number	None assigned
2 Digit NAICS Code	32
4 Digit NAICS Code	3251
6 Digit NAICS Code	325189

Parent Company Information

Parent Company Name	PQ Corporation
Address	300 Lidenwood Dr Malvern, PA 19355 USA
Percent Ownership	100%

Facility Contact

Public Contact	Jennie Houle
Address	429 Kipling Ave Etobicoke, ON M8Z 5C7
email	Jennie.Houle@silicates.com
Phone	(416)255-7771
Fax	(416)201-4344

Statement of Intent

National Silicates – Toronto Site is committed to playing a leadership role in protecting the environment. Wherever feasible, National Silicates will eliminate, or reduce the discharge of Particulate Matter (PM10, PM2.5) in full compliance with all Federal and Provincial Regulations.

Plan Objectives

National Silicates intends to reduce the emissions of particulate matter by using drapes during railcar unloading.

Description of Substance

Particulate Matter, a criteria air contaminant, is created as a by-product in the processes associated with the manufacture of silicate products.

Description of Previously Implemented Reduction Opportunities:

- Dust collector was installed in the dissolver unit area
- Attempted water spray on glass chute to reduce dust production
- Attempted water spray on electric furnace
- Installation of connection from material elevator to dust collector
- Closed system for material transport system
- Loading techniques are specific to material being loaded to help reduce PM
- Installation of loading chute directly from furnace to rail cars; eliminated manual transfer with super sacks for rail car loading
- Fines are recycled in electric furnace

Plan Summary Statement

This plan summary accurately reflects the content of the toxic substance reduction plan for particulate matter, prepared by National Silicates, dated December 13, 2013.

Toxic Substance Reduction Option(s) To Be Implemented

The following options have been identified for implementation to reduce creation and releases of particulate matter:

		Used	Created	Contained in Product	On-Site Releases to Air	On-Site Releases to Water	On-Site Releases to Land	Disposal On-Site	Disposal Off-Site	Transfer Off-Site for Recycling	
Option Description:		Drapes around rail car unloading area to trap and reduce PM emissions									
Estimated Reductions due to Option Implementation	PM10	Tonnes	N/A	Not Quantifiable	N/A	Not Quantifiable	N/A	N/A	N/A	N/A	N/A
		%	N/A	0	N/A	0	N/A	N/A	N/A	N/A	N/A
	PM2.5	Tonnes	N/A	Not Quantifiable	N/A	Not Quantifiable	N/A	N/A	N/A	N/A	N/A
		%	N/A	0	N/A	0	N/A	N/A	N/A	N/A	N/A
Timeline for Reductions		Years	N/A	1							

Certification By Highest Ranking Employee

As of December 13, 2013, I, Larry Masaro, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge this version of 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: Particulate Matter (PM10, PM2.5)



Larry Masaro
Manager – Plant Operations
National Silicates Canada – Toronto Site

Certification By Licensed Planner

As of December 13, 2013, I, Mark Roehler certify that I am familiar with the processes at National Silicates that use or create the toxic substance 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 December 13, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substance: Particulate Matter (PM10, PM2.5)



Mark Roehler
Certified Toxics Reduction Planner
LEHDER Environmental Services Limited
Licence # TSRP0128