

National Silicates
Toxics Reduction Public Summary Report

Facility Information

| | |
|---------------------------------|---------------------------------------|
| Company Name | National Silicates |
| Facility Name | National Silicates |
| Facility Physical Address | 429 Kipling Avenue |
| Facility Mailing Address | Etobicoke, ON M8Z 5C7 |
| Spatial Coordinates of Facility | 618516.93 m E, 4829301.18 m N (NAD83) |
| Number of Employees | 26 |
| NPRI ID | 10279 |
| 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 Lindenwood Dr. Malvern, PA 19355 |
| Percent Ownership (if available) | 100.00% |

Facility Contact

| | |
|----------------|---|
| Public Contact | Jennie Houle |
| Position | Environmental, Health & Safety Manager |
| Address | 429 Kipling Avenue, Etobicoke, ON M8Z 5C7 |
| email | Jennie.Houle@silicates.com |
| Phone | 416-255-7771 x 149 |
| Fax | 416-201-4347 |

Date of Summary

| | |
|----------------|--------------|
| Reporting Year | 2016 |
| Summary Date | June 1, 2017 |

Phase 1 Toxics Substances Reported

N/A

Phase 2 Toxics Substances Reported

PM10, PM2.5

Copy of Certification:

As of June 1, 2017, 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: *Larry Masaro*

Highest Ranking Employee:

Title: *DIRECTOR Plant Operations*

National Silicates

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

| | |
|-----------------------------|--|
| Substance Name | PM2.5 - PARTICULATE MATTER <=2.5MICRONS |
| CAS # | |
| Report Date: | 1-Jun-17 |
| Plan Date: | 31-Dec-13 |
| Plan Objectives and Targets | National Silicates intends to reduce the emissions of particulate matter by using drapes during railcar unloading. |

Toxics Substance Accounting and Comparison

| Pathways | 2015 | 2016 | Delta | Delta % |
|--|--|----------|---------|---------|
| Units reported | tonnes | tonnes | | |
| U - Enters the Process (Raw Materials) | 0 | 0 | 0 | NA |
| C - Created | >1 to 10 | >1 to 10 | >0 to 1 | 8.1% |
| P - In a product that leaves the process | 0 | 0 | 0 | NA |
| Summary of reasons for changes between current year and previous year. | Increase in glass potassium silicate produced. Rail car loading of potassium silicate added to the calculations. | | | |

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. Facility implementation schedule did not include any steps for 2016. |
| 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. Facility implementation schedule did not include any steps for 2016. |
| Summary of differences between steps taken and those set out in the plan. | None. Facility implementation schedule did not include any steps for 2016. |
| Description of amendments to the plan. | None. Facility implementation schedule did not include any steps for 2016. |

National Silicates

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Substance Information and Plan Objective

| | |
|-----------------------------|--|
| Substance Name | PM10 - PARTICULATE MATTER <=10MICRONS |
| CAS # | |
| Report Date: | 1-Jun-17 |
| Plan Date: | 31-Dec-13 |
| Plan Objectives and Targets | National Silicates intends to reduce the emissions of particulate matter by using drapes during railcar unloading. |

Toxics Substance Accounting and Comparison

| Pathways | 2015 | 2016 | Delta | Delta % |
|--|--|----------|---------|---------|
| Units reported | tonnes | tonnes | | |
| U - Enters the Process (Raw Materials) | 0 | 0 | 0 | NA |
| C - Created | >1 to 10 | >1 to 10 | >0 to 1 | 8.1% |
| P - In a product that leaves the process | 0 | 0 | 0 | NA |
| Summary of reasons for changes between current year and previous year. | Increase in glass potassium silicate produced. Rail car loading of potassium silicate added to the calculations. | | | |

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. Facility implementation schedule did not include any steps for 2016. |
| 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. Facility implementation schedule did not include any steps for 2016. |
| Summary of differences between steps taken and those set out in the plan. | None. Facility implementation schedule did not include any steps for 2016. |
| Description of amendments to the plan. | None. Facility implementation schedule did not include any steps for 2016. |