

June 2014

Ontario Toxics Reduction Act - Annual Report for the 2013 reporting Period

Facility Name: Vaughan Plant

Company Name: PPG Architectural Coatings Canada Inc. (formerly Akzo Nobel Canada Inc.)

Physical Address: 8200 Keele St. Concord Ontario

Spatial Co-ordinates of the Facility: Latitude: 43.81050 Longitude: -79.50200

UTM Zone: 30, UTM Easting: 45, UTM Northing: 70

NAICS ID: 325510

Public Contact: Brigitte Charpentier – Regulatory Specialist

Phone: 450-442-7924, Email: Brigitte.Charpentier@AkzoNobel.com

Number of Full-time Equivalent Employees at the Facility: 54

List of Toxic Substances Being Used at this Facility:

PM₁₀ - Particulate Matter with a diameter less than or = 10 um CAS RN: NA – M09

PM_{2.5} - Particulate Matter with a diameter less than or = 2.5 um CAS RN: NA – M10

Nonylpenol and its Ethoxylates – NA-20

Toxic Substance Reduction Plan Summary for PM_{2.5}.

Statement of Intent

PPG does not intend to reduce the use of these particle sizes. Raw materials having particle sizes PM_{2.5} are intentional particle sizes used in the manufacture of PPG consumer latex paints. These particle sizes are required to achieve desired paint finishes properties (i.e. flat, semi-gloss, gloss).

Reasons For Not Implementing Any Options

The paint manufacturing process is well controlled with materials being fed into the grinding tanks through a small opening with only a small amount of dust being created which is well below occupational hygiene limits. The dust that is created is extracted by a dust extraction system and is collected in a bag house. Large bags (1000-2200lbs) of raw materials are used as much as possible to minimize dust creation as opposed to a smaller 50 lb bag

option (x 20 or more). The large bags are returned to the raw material suppliers to be refilled. The particles are wetted and continue through the rest of the process via a closed pipeline.

This plan summary is accurate, up-to-date and reflects the content of the toxic substance reduction plan for PM_{2.5}.

Toxic Substance Reduction Plan Summary for PM₁₀.

Statement of Intent

PPG does not intend to reduce the use of these particle sizes. Raw materials having particle sizes PM₁₀ are intentional particle sizes used in the manufacture of PPG consumer latex paints. These particle sizes are required to achieve desired paint finishes properties (i.e. flat, semi-gloss, gloss).

Reasons For Not Implementing Any Options

The paint manufacturing process is well controlled with materials being fed into the grinding tanks through a small opening with only a small amount of dust being created which is well below occupational hygiene limits. The dust that is created is extracted by a dust extraction system and is collected in a bag house. Large bags (1000-2200lbs) of raw materials are used as much as possible to minimize dust creation as opposed to a smaller 50 lb bag option (x 20 or more). The large bags are returned to the raw material suppliers to be refilled. The particles are wetted and continue through the rest of the process via a closed pipeline.

Toxic Substance Reduction Plan Summary Nonylphenol and its ethoxylates

Statement of Intent

Ethoxylated Nonylphenol surfactants are used in some PPG AC consumer latex paint formula's as pigment stabilizers and aid colour acceptance when colourants are added to the paint.

PPG's objective is to reduce the use of NPE's in legacy latex formulas by 39% over the next 5 years. PPG acknowledges that NPE's are an issue to health and the environment and is committed to reduce the use of NPE's.

Objectives of Reduction Plan

There are alternatives to NPE's that are less toxic. New latex paint formulas have been developed in the last 4 years that have not been formulated with NPE's and have also been formulated to achieve the lowest possible VOC content. The objective is to address older formulations that have not yet been converted to NPE free surfactants.

Toxic Substance Accounting Results for 2013:

Substance Name	CAS RN	Use at Facility	Used (tonnes)	Created (tonnes)	Contained in Product (tonnes)
PM ₁₀ . Particulate Matter with a diameter less than or = 10 um	NA – M09	Paint Component	>1000 to 10000	>0 to 1	N/A
PM _{2.5} - Particulate Matter with a diameter less than or = 2.5 um	NA – M10	Paint Component	>1000 to 10000	>0 to 1	N/A
Nonylphenol and its Ethoxylates	NA-20	Paint Component	>10 to 100	>0 to 1	>10 to 100

Toxic Substance Accounting Results for 2012:

Substance Name	CAS RN	Use at Facility	Used (tonnes)	Created (tonnes)	Contained in Product (tonnes)
PM ₁₀ - Particulate Matter with a diameter less than or = 10 um	NA – M09	Paint Component	>1000 to 10000	>0 to 1	N/A
PM _{2.5} - Particulate Matter with a diameter less than or = 2.5 um	NA – M10	Paint Component	>1000 to 10000	>0 to 1	N/A
Nonylpenol and its Ethoxylates	NA-20	Paint Component	>10 to 100	>0 to 1	> 10 to 100

Changes in Quantities from Previous Year

Substance Name	CAS RN	Use at Facility	Change Used (tonnes and %)	Change Created (tonnes and %)	Contained in Product (tonnes)
PM ₁₀ - Particulate Matter with a diameter less than or = 10 um	NA – M09	Paint Component	>1000 to 10000 42% ↓	>0 to 1	N/A
PM _{2.5} - Particulate Matter with a diameter less than or = 2.5 um	NA – M10	Paint Component	>1000 to 10000 54.6 % ↓	>0 to 1	N/A
Nonylpenol and its Ethoxylates	NA-20	Paint Component	> 1 to 10 23 % ↓	>0 to 1	> 10 to 100

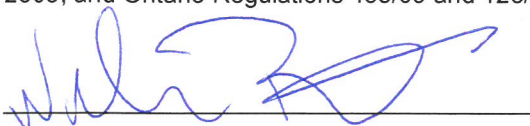
Reasons for Decreases

Raw material rationalization and formula optimization exercises took place in the latter part of 2013 which reduced the amount of PM₁₀ and PM_{2.5} use.

Plan implementation process for NPE's is well underway. A significant reduction of NPE use was achieved (23%) was achieved in 2013.

Certification by Highest Ranking Employee at the Facility

I certify that I have read the toxic substance report and am familiar with the content. To the best of my knowledge the report is factually accurate, and the report complies with the "Toxics Reduction Act, 2009, and Ontario Regulations 455/09 and 125/10.



Nelson Ponte

Plant Manager – Vaughan Facility

JUNE 1, 2014

Date