

June 1, 2016

**Ontario Toxics Reduction Act- Annual Report for the 2015 reporting period.**

Facility Name: Vaughan Plant

Company Name: PPG Architectural Coatings 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

NPRI ID: 1458

NAICS ID: 325510

Public Contact: Nelson Ponte – Plant Manager

Phone: 905-669-3497 Email: Nelson.Ponte@ppg.com

Highest Ranking Employee at the Facility: Nelson Ponte – Plant Manager

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

Report Prepared by: Terry Sutherland – EH&S Manager Coatings - Canada

Technical Contact: Terry Sutherland – EH&S Manager Coatings - Canada

**Parent Company**

PPG Canada Inc.

5676 Timberlea Blvd.

Mississauga, Ont

L4W 4M6

phone: 1-800-247-6649

### **List of Toxic Substances Being Used at this Facility:**

PM<sub>2.5</sub> - Particulate Matter with a diameter less than or = 2.5 um

CAS RN: NA – M10

PM<sub>10</sub> - Particulate Matter with a diameter less than or = 10 um

CAS RN: NA – M09

Nonylpenol and its Ethoxylates – NA-20

### **Toxic Substance Reduction Plan Summary for PM<sub>2.5</sub>.**

#### **Statement of Intent**

PPG does not intend to reduce the use of these particle sizes. Raw materials having particle sizes PM<sub>2.5</sub> 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<sub>2.5</sub>.

### **Toxic Substance Reduction Plan Summary for PM<sub>10</sub>.**

#### **Statement of Intent**

PPG does not intend to reduce the use of these particle sizes. Raw materials having particle sizes PM<sub>10</sub> 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<sub>10</sub>.

## **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 reporting year 2015**

Substance Name	CAS RN	Use at Facility	Used (tonnes)	Created (tonnes)	Contained in Product (tonnes)
PM <sub>10</sub> – Particulate Matter with a diameter less than or = 10 um	NA-M09	Paint Component	>1000 to 10000	>0 to 1	N/A
PM <sub>2.5</sub> – 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	>1 to 10	>0 to 1	>1 to 10

### **Changes in Quantities from Previous Year**

Substance Name	CAS RN	Use at Facility	Change Used (tonnes and %)	Change Created (tonnes and %)	Change Contained in Product (tonnes and %)
PM <sub>10</sub> – Particulate Matter with a diameter less than or = 10 um	NA-M09	Paint Component	>100 to 1000 -9%	>0 to 1	N/A
PM <sub>2.5</sub> – Particulate Matter with a diameter less than or = 2.5 um	NA-M10	Paint Component	>100 to 1000 -9%	>0 to 1	N/A
Nonylphenol and its Ethoxylates.	NA-20	Paint Component	>1 to 10 -43%	>0 to 1	>1 to 10


### **Reasons for Decreases**

Decrease in production levels as well as ongoing plan to reduce the use of Nonylphenol and it Ethoxylates.

**Certification by Highest Ranking Employee at the Facility**

I NELSON PONTE certify that I have read the toxic substance reduction plans for the toxic substances referred to below used at the PPG AC Vaughan facility and I 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 (General) made under that Act.

(NPE's, PM<sub>10</sub> and PM<sub>2.5</sub>)



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Nelson Ponte

Plant Manager-Vaughan Facility

MAY 25, 2016

Date