



Ontario Toxics Reduction Act Plan Summary
Revised August 2013

Facility Details

Trade Name: METAL KOTING
 Facility /Legal Name: Continuous Colour Coat Ltd.
 1430 Martin Grove Road
 Rexdale, Ontario, M9W 4Y1

UTM (NAD83) Coordinates: 17T 614122.26 4841383.36

NAICS 2 digit Code: 33 – Manufacturing

NAICS 4 digit Code: 3328 – Coating, Engraving, Heat Treating and Allied Activities

NAICS 6 digit Canada Code: 332810 - Coating, Engraving, Heat Treating and Allied Activities

NPRI (National Pollutant Release Inventory) ID: 0000004527

Full Time Employees: 127

Public Contact	Contact Information
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Person Who Prepared the Report	Contact Information
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List of Toxic Substances at the Facility for Which Plans Have Been Prepared

CAS Number	Substance Name
NA - 19	Hexavalent chromium(and its compounds)
NA - 08	Lead (and its compounds)
7664-93-9	Sulphuric acid
108-88-3	Toluene
1330-20-7	Xylene (all isomers)
NA - 14	Zinc (and its compounds)



Hexavalent Chromium – Ontario Toxics Reduction Act Plan Summary

Statement of Intent To Reduce

At Metal Koting, Continuous Colour Coat Ltd, the preservation and protection of our natural environment is a primary consideration in our decision making. We will strive to reduce the amount of Hexavalent Chromium used at our plant where feasible with consideration to reducing our environmental impact.

Objectives

Metal Koting - Continuous Colour Coat Limited is committed to maintaining a leadership role as a manufacturer of specialty coated metal for customers in a range of industries. In our commitment to the environment, Metal Koting will strive to reductions in Hexavalent Chromium usage in our plant as part of this Toxics Reduction plan.

Description of why the toxic substance is Used or Created

Hexavalent Chromium is used as a component of Paints used to paint metal substrate. It is also used as a component of chemical passivation treatment on metal.

Description of Options to be Implemented

Material or Feedstock Substitution

- Substitute paint containing less chrome for paint containing more chrome.

Estimated Reduction:

Use: 50 kg/year 1.2 %
Contained in Product: 44 kg/year 1.6 %
Off-site Recycling: 5.57 kg/year 9.1 %

Timeline: 5 years

Material or Feedstock Substitution

- Collaborating with paint suppliers to reduce the Hexavalent chrome content in certain paints.

Estimated Reduction:

Use: 100 kg/year 2.3 %
Contained in Product: 88 kg/year 3.2 %
Off-site Recycling: 11.7 kg/year 4.2 %

Timeline: 5 years





Sulphuric Acid - Ontario Toxics Reduction Act Plan Summary

Statement of Intent To Reduce

At Metal Koting, Continuous Colour Coat Ltd, the preservation and protection of our natural environment is a primary consideration in our decision making. We will strive to reduce the amount of Sulphuric Acid used at our plant where feasible with consideration to reducing our environmental impact.

Objectives

Metal Koting - Continuous Colour Coat Limited is committed to maintaining a leadership role as a manufacturer of specialty coated metal for customers in a range of industries. In our commitment to the environment, Metal Koting will strive to reduce the Sulphuric Acid usage in our plant as part of this Toxics Reduction plan.

Description of why the toxic substance is Used or Created

Sulphuric Acid is used to make up the plating solution along with Zinc Oxide, which is used to plate Zinc onto steel. Sulphuric Acid is also used in the Pickling Stage to remove impurities from the surface of the steel.

An additional use of Sulphuric Acid is in the Waste Treatment area, where it is used for pH control in the Chrome Reduction System and to pre-neutralize waste coming into the waste treatment area.

Description of Options to be Implemented

Equipment or Process Modifications -Modified Equipment, Layout or Piping

- Change the type of pH probe used in the Zinc Dissolution system.

Estimated Reduction:

Use: 0.18 tonnes/year 0.13%

Timeline: 1 year

Spill or Leak Prevention

- Implement a check system for the manually operated water valve to the plating tank, to prevent overflowing the tank and losing plating solution.

Estimated Reduction:

Use: 0.5 tonnes/year 0.37 %

Timeline: 1 year





Estimated Reduction:

Use: 1.47 tonnes/year 0.5 %

Off-Site Disposals: 0.15 tonnes/year 0.5 %

Timeline: 5 years

Spill or Leak Prevention

- Implement checks on manual water valve to plating tank to avoid overflowing the tank.

Estimated Reduction:

Use: 1 tonnes/year 0.34 %

Off-site Disposals: 0.10 tonnes/year 0.33 %

Timeline: 1 year

Spill or Leak Prevention

-Implemented inspection or monitoring program of potential



Toluene - Ontario Toxics Reduction Act Plan Summary

Statement of Intent To Reduce

At Metal Koting, Continuous Colour Coat Ltd, the preservation and protection of our natural environment is a primary consideration in our decision making. We will strive to reduce the amount of Toluene used in our plant where feasible with consideration to reducing our environmental impact.

Objectives

Metal Koting - Continuous Colour Coat Limited is committed to maintaining a leadership role as a manufacturer of specialty coated metal for customers in a range of industries. In our commitment to the environment, Metal Koting will strive to reduce the Toluene usage in our plant as part of this Toxics Reduction plan.

Description of why the toxic substance is Used or Created

The majority of Toluene is used as a component of Wash Up Solvent, which is used to clean equipment and floors after and between painting set-ups. Toluene is also used as a component of Paints which are used to paint a metal substrate on the Paint Line.

Description of Options to be Implemented

Material or Feedstock Substitution

- Reduce the amount of Toluene contained in our Wash-Up Solvent used for cleaning.

Estimated Reduction:

Use: 6.78 tonnes/year 44.9 %

Releases to Air: 0.003 tonnes/year 14 %

Transfers Off Site for Recycling: 6.78 tonnes/year 51.5%

Timeline: 1 year

Good Operator Practice or Training

-Improved Maintenance Scheduling, Record Keeping or Purchasing Techniques

- Standardize and improve Paint Line cleaning procedure to minimize amount of waste wash up solvent.

Estimated Reduction:

Use: 0.34 tonnes/year 2.3 %

Timeline: 3 years

The plan summary for Toluene accurately reflects the Toxics Reduction plan for Toluene.



Xylene - **Ontario Toxics Reduction Act Plan Summary**

Statement of Intent To Reduce

At Metal Koting, Continuous Colour Coat Ltd, the preservation and protection of our natural environment is a primary consideration in our decision making. We will strive to reduce the amount of Xylene used in our plant where feasible with consideration to reducing our environmental impact.

Objectives

Metal Koting - Continuous Colour Coat Limited is committed to maintaining a leadership role as a manufacturer of specialty coated metal for customers in a range of industries. In our commitment to the environment, Metal Koting will strive to reduce the Xylene usage in our plant as part of this Toxics Reduction plan.

Description of why the toxic substance is Used or Created

Xylene is used as a component of Paints which used to paint a metal substrate on the Paint line. Xylene is used as a viscosity adjuster, additive to paints on the Paint Line. Xylene is also used as a component of Wash Up Solvent, which is used to clean Equipment and floors after and between painting set-ups.

Description of Options to be Implemented

Material or Feedstock Substitution

-Substituted Materials

- Reduce the amount of Xylene contained in Wash-Up Solvent



Timeline: 2 years

Good Operator Practice or Training

- Make Operators aware of paint costs to be more conscientious of over use and scrapping of paint unnecessarily.

Estimated Reduction:

Use: 0.05 tonnes/year 0.1 %

Timeline: 1 years

Good Operator Practice or Training

-Improved Maintenance Scheduling, Record Keeping or Purchasing Techniques

- Standardize and improve Paint Line cleaning procedure to reduce the consumption and disposal of Wash Up Solvent.

Estimated Reduction:

Use: 0.39 tonnes/year 0.5%

Timeline: 3 years

The plan summary for Xylene accurately reflects the Toxics Reduction plan for Xylene.

Lead -

Ontario Toxics Reduction Act Plan Summary

Statement of Intent To Reduce

At Metal Koting, Continuous Colour Coat Ltd, the preservation and protection of our natural environment is a primary consideration in our decision making. We will strive to reduce the amount of Lead used in our plant where feasible with consideration to reducing our environmental impact.

Objectives

Metal Koting - Continuous Colour Coat Limited is committed to maintaining a leadership role as a manufacturer of specialty coated metal for customers in a range of industries. In our commitment to the environment, Metal Koting will strive to find efficiencies regarding lead usage in our plant as part of this Toxics Reduction plan.

Description of why the toxic substance is Used or Created

Lead is also used as a component of Lead-Silver Anodes used on the Electroplating Line. Lead is also present as an impurity in Zinc Oxide which is used to make up the plating solution.



Description of Options to be Implemented

Equipment or Process Modifications

- Improved tension control on the Electro galvanizing Line will lead to less line stops and anode degradation due to tension control problems such as nicks, cuts and scratches.

Estimated Reduction:

Use: 47 kg/year 5%

Off Site Disposals: 34 kg/year 5%

Timeline: 5 years

Good Operator Practice or Training

-Improved Maintenance Scheduling, Record Keeping or Purchasing Techniques

- Improve the standardization of console operator training to improve consistency and reduce line stops.

Estimated Reduction:

Use: 40 kg/year 4.5 %

Off-Site Disposals: 31 kg/year 4.5%

Timeline: 2 years

The plan summary for Lead

Topic: Reduction Plan, Part 1 of the Air Quality Management Plan December 2017

Signing Employee: _____

Rationale:
 Upon examination of the spreadsheet used to calculate the data for the 2017 reduction plan, it was found that several errors had been corrected, and the spreadsheet accordingly.

contained in the December plan. These errors have since

I have read the plan, am familiar with its contents and

to my knowledge the plan

Date: _____

 President and CEO
 Metal Koting - Continuous Colour Coat Ltd.

Topic/Subject: Reduction Plan

Colour Coat Ltd, I agree with the implementation of the regulatory deadline, and regulation.

I am familiar with the processes of Metal Koting, Continuous with the estimates of reduction for those options that are in exception of the certification of the plan falling after the all other requirements of the act and r

Date: 2017/12/03

 Marika Toyama
 Project Engineer
 Metal Koting - Continuous Color Coat Ltd.
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