

Coatings 85 Ltd.
Toxics Reduction Plan Public Report.

June 18, 2018

Introduction

This report is a summary report of the Toxic Substance Reduction Plans prepared in accordance with the requirements of the Ontario Regulation 455/09 and is directed at members of the public.

This report will provide members of the public with information related to the facility's usage of substances regulated under the Ontario Toxics Reduction Act that meet reporting criteria. The report will provide details on the facilities usage of the designated substances as well as any steps the facility has taken to minimize the use and discharge of these chemicals to air, land and water.

Facility and Contact Information.

The following table lists all of the facility details and contact information.

Category	Relevant Information
TRA reportable substances	Zinc (and it's compounds) - CAS NA-14 Hydrochloric Acid - CAS 7647-01-0 Cobalt (and it's compounds) - CAS NA-05
NPRI ID	2545
MOE O.Reg 127/01 ID	N/A
Legal and Trade Names of the Owner and Operator of the Facility	Coatings 85 Ltd., 7007 Davand Drive, Mississauga, Ontario. L5T 1L5.
Number of Full-Time Employees (or equivalents)	350
NAICS codes	332810
Name, Position and Contact Information of Facility Public Contact.	Jim Sutherland Technical Manager 6995 Davand Drive, Mississauga, Ontario, L5T 1L5. 905 564 1711
UTM Co-ordinates	17T 606769mE 4836096mN
Parent Company Legal Name	N/A
Parent Company Address	N/A
Parent Company Percentage Owned	N/A

Executive Summary

Coatings 85 Ltd. operates a facility in Mississauga, Ontario that supplies metal finishing services to automotive parts suppliers. As required by the Toxic Reduction Act (TRA), this facility is required to make available and provide upon written request from a member of the public a report summarizing the toxic substance reduction plans for any designated substances that meet reporting criteria.

The facility has used five TRA reportable materials, zinc, hydrochloric acid, sulphuric acid, hexavalent chromium and cobalt.

The facility has used three TRA reportable materials in the year 2017 for which plans have been prepared:

Zinc (CAS NA-14)

Hydrochloric Acid (CAS 7647-01-0)

Cobalt (CAS NA-05)

The use of sulphuric acid and hexavalent chromium has been significantly reduced or eliminated and are no longer reportable.

At present the facility is investigating/implementing various options to:

1. reduce the use of these chemicals at the facility and
2. reduce the amount released to the environment.

Coatings 85 Ltd. has implemented options to reduce the use of zinc.
(Zinc is not created at Coatings 85 Ltd.)

Coatings 85 Ltd. was unable to successfully implement any reductions for hydrochloric acid.
(Hydrochloric acid is not created at Coatings 85 Ltd.)

Coatings 85 Ltd. was unable to find any options to reduce the use of cobalt that were both technically and economically feasible.
(Cobalt is not created at Coatings 85 Ltd.)

For information on On-site releases from the facility, as well as disposal and off-site recycling information please refer to the National Pollution Release Inventory's website.

Reduction Plan Objectives.

Zinc, hydrochloric acid, sulphuric acid, hexavalent chromium and cobalt are the TRA reportable substances that have been used and released from this facility. The facility is committed to investigating methods and actions that will 1) reduce the amount of each TRA substance used at the facility and 2) decrease the amount of each TRA substance released to the environment.

Zinc - Objectives and Targets from the Toxic Substance Reduction Plan 10/5/2012

Objective - Coatings 85 Ltd. prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. Coatings will strive to reduce the amount of zinc that is used at the facility. Further this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Target - To reduce the usage of zinc on the Mechanical Plating line by 0.175 metric tonnes per annum and the overall percentage used at the facility by 0.19% based on current production volumes. Plan has been successfully implemented.

Hydrochloric Acid - Objectives and Targets from the Toxic Substance Reduction Plan 10/5/2012

Objective: - Coatings 85 Ltd. prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. Coatings 85 will strive to reduce the amount of hydrochloric acid that is used at the facility. Further this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Target - To reduce the usage of hydrochloric acid on the Moore line by 5.1 metric tonnes per annum and the overall percentage used at the facility by 3% based on current production volumes. Coatings 85 Ltd. was unable to successfully implement any reductions for hydrochloric acid.

Hexavalent Chromium – Objectives and Targets from the Toxic Substance Reduction Plan 10/5/2012

Objective: Coatings 85 prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. Coatings will strive to reduce the amount of Hexavalent Chromium that is used at the facility.

Further this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Target: No target has been set for the reduction in Hexavalent Chromium as no options were found to be technically and economically feasible.

The use of hexavalent chromium has been eliminated at the facility.

Sulphuric Acid – Objectives and Targets from the Toxic Substance Reduction Plan 8/1/2013

Objective: Coatings 85 prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. Coatings will strive to reduce the amount of sulphuric acid that is used at the facility. Further this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Target: No target has been set for the reduction in sulphuric acid as no options were found to be technically and economically feasible.

The use of sulphuric acid has virtually been eliminated due to safety concerns with handling the material.

Cobalt - Objectives from the Toxic Substance Reduction Plan 11/18/2017

Objective: Coatings 85 prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. Coatings will strive to reduce the amount of cobalt that is used at the facility. Further this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Target: No target has been set for the reduction in cobalt as no options were found to be technically and economically feasible.

Description of why the toxic substance is used and/or created.

None of the following materials are created in any of our processes. The following describes the reason for their use.

Zinc – Zinc is applied to metal articles to protect them from corrosion extend their useful life and improve their appearance.

Hydrochloric acid – Hydrochloric acid is used to prepare metal articles for plating/coating. Hydrochloric acid removes surface scale and oxides and allows for the deposition of the subsequent coating.

Hexavalent chromium – This material is no longer used or created at Acadian Platers Co. Ltd.

Sulphuric acid – Sulphuric acid is used to prepare metal articles for plating/coating. Sulphuric acid removes surface scale and oxides and allows for the deposition of the subsequent coating.

Cobalt - Cobalt passivates are used to produce a thin passivate film on zinc and zinc alloy electroplated finishes. These coatings increase the durability of the coating extending the electroplated components service life by inhibiting corrosion of the electroplated coating on the component.

Reduction Options Under Consideration for Implementation.

The facility is currently investigating various reduction options and will review the outcomes of these investigations on an ongoing basis. The reduction of toxic substances in the facility is considered an important objective for process and environmental initiatives,

Implementation of Options for Reduction of zinc.

To reduce the use of zinc at the facility, Coatings had plans to implement and successfully the implemented the following option:

Description and Timetable for Implementation.

Description and Timetable for Implementation of Steps for Equipment or process modification Option.		
Ensuring that the operators on the Mechanical line are checking thickness of the parts three quarters of the way through the plating cycle to determine if the final addition of zinc powder is needed.		
Step	Description for Zinc	Estimated Timelines
1	Reviewing the operating instruction with the operators to ensure that they are checking the thickness of the parts three quarters of the way through the plating cycle.	Dec 31, 2012
2	Review of practices on the mechanical line to ensure that this operating practice is still being used consistently.	June 30, 2013

Estimate of Reduction of Zinc		
Type	Estimated reduction in tonnes (per cent of total for the plant.)	Anticipated dates for achieving reductions.
Use	0.175 tonnes (0.19%)	Jan 1, 2014
Creation	0 tonnes (0.0%)	Not applicable
Release to air	0 tonnes (0.0%)	Not applicable
Release to water	0 tonnes (0.0%)	Not applicable
Release to land	0 tonnes (0.0%)	Not applicable
Disposal off site	0 tonnes (0.0%)	Not applicable
Disposal on site	0 tonnes (0.0%)	Not applicable
Transfer off site for recycling	0 tonnes (0.0%)	Not applicable
Contained in product.	0.175 tonnes (0.19%)	Jan 1, 2014

Implementation of Options for Reduction of hydrochloric acid.

To reduce the use of hydrochloric acid at the facility, Coatings had plans to implement the following options however we were unsuccessful in implementing these options:

Description and Timetable for Implementation of Steps for Equipment or process modification Option.		
Increased drain time prior to the pickle tank to reduce drag in of water. Increased drain time over the pickle tank to recover more of the solution lost through drag out.		
Step	Description for Hydrochloric Acid	Estimated Timelines
1	Determination of amount of additional time required to achieve a 25% reduction in drag out on the Rack Zinc line.	Mar 31, 2013
2	Evaluation on the effect of production of using the increased dwell times.	June 30, 2013
3	Programming of PLC computers with additional dwell times.	Dec 31, 2013
4	Evaluation and monitoring of the reduction in hydrochloric acid consumption as a result of the increased dwell times.	Jan 1, 2015

Estimate of Reduction of Hydrochloric Acid		
Type	Estimated reduction in tonnes (per cent of total for the plant.)	Anticipated dates for achieving reductions.
Use	5.1 tonnes (3%)	Jan 1, 2015
Creation	0 tonnes (0.0%)	Not applicable
Release to air	0.0015 tonnes (0.0009%)	Not applicable
Release to water	0 tonnes (0.0%)	Not applicable
Release to land	0 tonnes (0.0%)	Not applicable
Disposal off site	0 tonnes (0.0%)	Not applicable
Disposal on site	5.1 tonnes (3%)	Not applicable
Transfer off site for recycling	0 tonnes (0.0%)	Not applicable
Contained in product.	0.0 tonnes (0.0%)	Not applicable

Hexavalent chromium - No options were found to be technically and economically feasible.

Sulphuric acid - No options were found to be technically and economically feasible.

Cobalt - No options were found to be technically and economically feasible.

Planner information.

Planner license number for the planner who provided recommendations (or rationale for no recommendations) – James Sutherland TSRP0040.

Planner license number for the certifying planner - James Sutherland TSRP0040.

Certifications

The facility's Highest Ranking Employee certified the reduction plans for each substance. Attached are copies of these certifications.

Signatures have been removed from the following certifications and signed copies are available for review at the facility.

9.0 Certification by the highest-ranking employee and by the licensed planner.

CERTIFICATION BY THE HIGHEST RANKING EMPLOYEE.

As of October 31, 2012, I, Mike Pitman, 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 the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Zinc

Mike Pitman
President
Coatings 85 Ltd.

CERTIFICATION BY LICENSED PLANNER.

As of October 31, 2012, I, James Sutherland, certify that I am familiar with the processes at Coatings 85 Ltd. that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7iii, iv and v of subsection 4(1) of the Toxic Reduction Act, 2009 that are set out in the plan dated October 5, 2012 and that the plan complies with the Act and Ontario Regulation 455/9 (General) made under the Act.

Zinc

James Sutherland (Planner license # TSRP0040)
Technical Manager/Toxic Substance Reduction Planner.
Acadian Group.

9.0 Certification by the highest-ranking employee and by the licensed planner.

CERTIFICATION BY THE HIGHEST RANKING EMPLOYEE.

As of October 31, 2012, I, Mike Pitman, 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 the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Hydrochloric acid

Mike Pitman
President.

CERTIFICATION BY LICENSED PLANNER.

As of October 31, 2012, I, James Sutherland, certify that I am familiar with the processes at Coatings 85 Ltd. that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7iii, iv and v of subsection 4(1) of the Toxic Reduction Act, 2009 that are set out in the plan dated October 5, 2012 and that the plan complies with the Act and Ontario Regulation 455/9 (General) made under the Act.

Hydrochloric acid

James Sutherland (Planner license # TSRP0040)
Technical Manager/Toxic Substance Reduction Planner.
Acadian Group.

9.0 Certification by the highest-ranking employee and by the licensed planner.

CERTIFICATION BY THE HIGHEST RANKING EMPLOYEE.

As of October 31, 2012, I, Mike Pitman, 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 the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Hexavalent Chromium.

Mike Pitman
President.
Coatings 85 Ltd.

CERTIFICATION BY LICENSED PLANNER.

As of October 31, 2012, I, James Sutherland, certify that I am familiar with the processes at Coatings 85 Ltd. that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7iii, iv and v of subsection 4(1) of the Toxic Reduction Act, 2009 that are set out in the plan dated October 5, 2012 and that the plan complies with the Act and Ontario Regulation 455/9 (General) made under the Act.

Hexavalent Chromium.

James Sutherland (Planner license # TSRP0040)
Technical Manager/Toxic Substance Reduction Planner.
Acadian Group.

9.0 Certification by the highest-ranking employee and by the licensed planner.

CERTIFICATION BY THE HIGHEST RANKING EMPLOYEE.

As of August 31, 2013, I, Mike Pitman, 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 the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Sulphuric acid

Mike Pitman
President.

CERTIFICATION BY LICENSED PLANNER.

As of August 31, 2013, I, James Sutherland, certify that I am familiar with the processes at Coatings 85 Ltd. that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7iii, iv and v of subsection 4(1) of the Toxic Reduction Act, 2009 that are set out in the plan dated October 5, 2012 and that the plan complies with the Act and Ontario Regulation 455/9 (General) made under the Act.

Sulphuric acid

James Sutherland (Planner license # TSRP0040)
Technical Manager/Toxic Substance Reduction Planner.
Acadian Group.

9.0 Certification by the highest-ranking employee and by the licensed planner.

CERTIFICATION BY THE HIGHEST RANKING EMPLOYEE.

As of November 20, 2017, I, Mike Pitman, 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 the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Cobalt.

Mike Pitman
Vice President of Operations
Coatings 85 Ltd.

CERTIFICATION BY LICENSED PLANNER.

As of November 20, 2017, I, James Sutherland, certify that I am familiar with the processes at Coatings 85 Ltd. that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7iii, iv and v of subsection 4(1) of the Toxic Reduction Act, 2009 that are set out in the plan dated October 10, 2012 and that the plan complies with the Act and Ontario Regulation 455/9 (General) made under the Act.

Cobalt.

James Sutherland (Planner license # TSRP0040)
Technical Manager/Toxic Substance Reduction Planner.
Acadian Group.