



National Pollutant Release Inventory (NPRI) and Partners



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Report Preview

Report Details

Report Year	2017
Report Type:	NPRI,ON MOE TRA,ON MOE
Report Status:	Update 1 - Submitted
Modified Date/Time:	15/08/2018 9:28 AM
Report Update Comments:	Update of "Applicable Programs" Update of Toluene reporting

Company and Facility Details

Company Name:	Vacuum Metallizing Ltd.
Business Number:	105468771
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 30 Dovedale Court City, Province/Territory, Postal Code: Toronto Ontario M5M4G2 Country: Canada
Facility Name:	VACUUM METALLIZING LIMITED
NAICS Code:	332810
NPRI ID:	7102
ON Reg 127/01 ID:	179901
Physical Address:	Address Line 1: 30 Dovedale Court City, Province/Territory, Postal Code: Scarborough Ontario M1S5A7 Country: Canada Latitude: 43.7958 Longitude: -79.2459

Permits

Number or Permit Number:	3538-75DKEM
Government Department, Agency, or Program Name:	Ministry of the Environment of Ontario

Contacts Details

Contact Type	Technical Contact, Certifying Official, Company Coordinator, Contractor Contact, Public Contact, Highest Ranking Employee, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Jeffrey Sugar
Position:	President
Telephone:	4167543377

Extension	115
Fax:	4167548077
Email:	jsugar@vacuummetallizing.ca
Independent contractor/consultant company name:	Vacuum Metallizing Limited

General Information

Number of employees:	22
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:	None of the above
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Is this the first time the facility is reporting to the NPRI (under current or past ownership):	No
Is the facility controlled by another Canadian company or companies:	No
Did the facility report under other environmental regulations or permits:	Yes
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	No
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri
Usual Number of Operating Hours per day:	9
Usual Daily Start Time (24h) (hh:mm):	07:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
67-64-1	Acetone	2.7840	N/A	N/A	N/A	tonnes
100-41-4	Ethylbenzene	0.0940	N/A	N/A	N/A	tonnes
67-56-1	Methanol	0.1640	N/A	N/A	N/A	tonnes
78-93-3	Methyl ethyl ketone	2.3920	N/A	N/A	N/A	tonnes
108-10-1	Methyl isobutyl ketone	2.9070	N/A	N/A	N/A	tonnes
71-36-3	n-Butyl alcohol	0.8260	N/A	N/A	N/A	tonnes
108-88-3	Toluene	0.4950	N/A	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	1.5380	N/A	N/A	N/A	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
67-64-1	Acetone		Yes	Yes	Yes
100-41-4	Ethylbenzene	No	No		No
67-56-1	Methanol	No	No		No
78-93-3	Methyl ethyl ketone	Yes	Yes		Yes
108-10-1	Methyl isobutyl ketone	Yes	Yes		Yes
71-36-3	n-Butyl alcohol	Yes	No		No
108-88-3	Toluene	No	No		No
1330-20-7	Xylene (all isomers)	Yes	Yes		No

Applicable Programs - Comments

CAS RN	Substance Name	Comments
100-41-4	Ethylbenzene	The facility used significantly less than the reporting requirements for Ethylbenzene in the 2017 reporting year.
67-56-1	Methanol	The facility used significantly less than the reporting requirements for Methanol in the 2017 reporting year.

CAS RN	Substance Name	Comments
71-36-3	n-Butyl alcohol	The facility used significantly less than the reporting requirements for n-butyl alcohol in the 2017 reporting year
108-88-3	Toluene	The Facility used less than 1 tonne of Toluene in the 2017 Reporting year and therefore reporting is not required.

TRA Exit Record

CAS RN	Substance Name	Circumstance(s) that apply	Describe the circumstances that lead to the criteria no longer being met	Describe the information and any quantifications relied upon for making the determination
100-41-4	Ethylbenzene	The substance did not meet the criteria to provide information to NPRI	The facility used significantly less than the reporting requirements for Ethylbenzene in the 2017 reporting year	The facility used significantly less than the reporting requirements for Ethylbenzene in the 2017 reporting year
67-56-1	Methanol	The substance did not meet the criteria to provide information to NPRI	The facility used significantly less than the reporting requirements for Ethylbenzene in the 2017 reporting year	The facility used significantly less than the reporting requirements for Ethylbenzene in the 2017 reporting year
71-36-3	n-Butyl alcohol	The substance did not meet the criteria to provide information to NPRI	The facility used significantly less than the reporting requirements for Ethylbenzene in the 2017 reporting year.	The facility used significantly less than the reporting requirements for Ethylbenzene in the 2017 reporting year.
108-88-3	Toluene	The substance did not meet the criteria to provide information to NPRI	The facility has consistently used less than 0.5 tonnes of toluene, year over year.	An exit record has been created for Toluene due to the fact that the facility consistently uses less Toluene than the reporting requirements.

General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
100-41-4	Ethylbenzene	Yes	Yes	No
67-56-1	Methanol	Yes	Yes	No
78-93-3	Methyl ethyl ketone	Yes	No	No
108-10-1	Methyl isobutyl ketone	Yes	No	No
71-36-3	n-Butyl alcohol	Yes	Yes	No
108-88-3	Toluene	Yes	Yes	No
1330-20-7	Xylene (all isomers)	Yes	No	No

General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
100-41-4	Ethylbenzene	No	No	No
67-56-1	Methanol	No	No	No
78-93-3	Methyl ethyl ketone	No	No	No
108-10-1	Methyl isobutyl ketone	No	No	No
71-36-3	n-Butyl alcohol	No	No	No
108-88-3	Toluene	No	No	No
1330-20-7	Xylene (all isomers)	No	No	No

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
100-41-4	Ethylbenzene		As a formulation component As an article component	As a physical or chemical processing aid
67-56-1	Methanol			As a manufacturing aid
78-93-3	Methyl ethyl ketone		As a formulation component	
108-10-1	Methyl isobutyl ketone		As a formulation component	
71-36-3	n-Butyl alcohol		As a formulation component	As a manufacturing aid
108-88-3	Toluene		As a formulation component	As a physical or chemical processing aid
1330-20-7	Xylene (all isomers)		As a formulation component	As a physical or chemical processing aid

Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment
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111-76-2	2-Butoxyethanol	Removed	Voluntary reporting of a substance under reporting limits.
67-64-1	Acetone	Added	Acetone was removed because data was incorrect. The substance has been readded to the list

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
67-64-1	Acetone	Use	2.784 tonnes	Yes
67-64-1	Acetone	Creation	0 tonnes	Yes
67-64-1	Acetone	Contained in Product		
78-93-3	Methyl ethyl ketone	Use	2.392 tonnes	Yes
78-93-3	Methyl ethyl ketone	Creation	0 tonnes	Yes
78-93-3	Methyl ethyl ketone	Contained in Product	0 tonnes	Yes
108-10-1	Methyl isobutyl ketone	Use	2.807 tonnes	Yes
108-10-1	Methyl isobutyl ketone	Creation	0 tonnes	Yes
108-10-1	Methyl isobutyl ketone	Contained in Product	0 tonnes	Yes
1330-20-7	Xylene (all isomers)	Use	1.538 tonnes	Yes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes	Yes
1330-20-7	Xylene (all isomers)	Contained in Product	0 tonnes	Yes

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
67-64-1	Acetone					No
78-93-3	Methyl ethyl ketone					No
108-10-1	Methyl isobutyl ketone					No
1330-20-7	Xylene (all isomers)					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-64-1	Acetone	Stack or Point Releases	C - Mass Balance		2.784 tonnes
78-93-3	Methyl ethyl ketone	Stack or Point Releases	C - Mass Balance		2.392 tonnes
108-10-1	Methyl isobutyl ketone	Stack or Point Releases	C - Mass Balance		2.907 tonnes
1330-20-7	Xylene (all isomers)	Stack or Point Releases	C - Mass Balance		1.538 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
67-64-1	Acetone	2.784 tonnes
78-93-3	Methyl ethyl ketone	2.392 tonnes
108-10-1	Methyl isobutyl ketone	2.907 tonnes
1330-20-7	Xylene (all isomers)	1.538 tonnes

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
100-41-4	Ethylbenzene	Total Quantity Released	C - Mass Balance		0.094 tonnes
67-56-1	Methanol	Total Quantity Released	C - Mass Balance		0.164 tonnes
71-36-3	n-Butyl alcohol	Total Quantity Released	C - Mass Balance		0.826 tonnes
108-88-3	Toluene	Total Quantity Released	C - Mass Balance		0.495 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
78-93-3	Methyl ethyl ketone	2.392 tonnes
108-10-1	Methyl isobutyl ketone	2.907 tonnes
1330-20-7	Xylene (all isomers)	1.538 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
100-41-4	Ethylbenzene	25	25	25	25
67-56-1	Methanol	25	25	25	25
78-93-3	Methyl ethyl ketone	25	25	25	25
108-10-1	Methyl isobutyl ketone	25	25	25	25
71-36-3	n-Butyl alcohol	25	25	25	25
108-88-3	Toluene	25	25	25	25
1330-20-7	Xylene (all isomers)	25	25	25	25

On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
100-41-4	Ethylbenzene	Other (specify in On-site Releases comment field)	New paint formulations from suppliers.
108-10-1	Methyl isobutyl ketone	Changes in production levels	
108-88-3	Toluene	Changes in production levels	The use of toluene onsite has lowered as a result of lower production levels and chemical substitutions where possible.
1330-20-7	Xylene (all isomers)	No significant change (i.e. < 10%) or no change	
67-56-1	Methanol	No significant change (i.e. < 10%) or no change	
71-36-3	n-Butyl alcohol	Pollution prevention activities	Supplier and internal efforts to reduce n'butyl alcohol have led to lower consumption and release of the substance.
78-93-3	Methyl ethyl ketone	No significant change (i.e. < 10%) or no change	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
100-41-4	Ethylbenzene		No significant change (i.e. < 10%) or no change	
108-10-1	Methyl isobutyl ketone		No significant change (i.e. < 10%) or no change	
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
71-36-3	n-Butyl alcohol		No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone		No significant change (i.e. < 10%) or no change	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
100-41-4	Ethylbenzene		No significant change (i.e. < 10%) or no change	
108-10-1	Methyl isobutyl ketone		No significant change (i.e. < 10%) or no change	
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
71-36-3	n-Butyl alcohol		No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone		No significant change (i.e. < 10%) or no change	

Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	1,538 tonnes	1,714 tonnes	2016	-0.176	-10.27
1330-20-7	Xylene (all isomers)	No	Creation	0 tonnes	0 tonnes	2016	0	
1330-20-7	Xylene (all isomers)	No	Contained in Product	0 tonnes	0 tonnes	2016	0	

Comparison Report - Enters, Creation, Contained in Product : Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
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CAS RN	Substance Name	Reason(s) for Change	Other Reason
1330-20-7	Xylene (all isomers)	No reasons - quantities approximately the same Increase in production levels	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	1.538 tonnes	1.714 tonnes	2016	-0.176	-10.27
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2016	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2016	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to All Media	0 tonnes				

Comparison Report - On-site Releases - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
1330-20-7	Xylene (all isomers)	No reasons - quantities approximately the same Increase in production levels	

Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was prepared or implemented for another government jurisdiction (i.e. other Federal government department, province, municipality). Specify name in comments field below.
Plan was prepared or implemented on a voluntary basis.

b) Did the facility update their plan in the current reporting year?

No

c) Does the plan address substances, energy conservation, or water conservation?

Substances (provide the name of the primary Substances in the comments field below)

Please summarize your pollution prevention plan. If you selected "Substances", please specify the substances that were addressed in your plan (this information will be publicly available).

xylene, methanol, toluene, heptane, n'butyl alcohol, acetone

Did the facility complete any pollution prevention activities in the current NPRI reporting year?

No

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
1330-20-7	Xylene (all isomers)	Reduce the use of xylene used at the facility.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
1330-20-7	Xylene (all isomers)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
1330-20-7	Xylene (all isomers)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
1330-20-7	Xylene (all isomers)	No		

Report Submission and Electronic Certification

NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Vacuum Metallizing Ltd.

Certifying Official (or authorized delegate)

Jeffrey Sugar

Report Submitted by

Jeffrey Sugar

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 15/08/2018, I, Jeffrey Sugar, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN	Substance Name
67-64-1	Acetone
78-93-3	Methyl ethyl ketone
108-10-1	Methyl isobutyl ketone
1330-20-7	Xylene (all isomers)

Exit Record Certification Statement

As of 15/08/2018, I Jeffrey Sugar, certify that I have read the records created for the purposes of section 11.2 of Ontario Regulation 455/09 (General) made under the Toxics Reductions Act, (2009) in respect of the use and creation of the toxic substances referred to below at VACUUM METALLIZING LIMITED and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN	Substance Name
108-88-3	Toluene
100-41-4	Ethylbenzene
67-56-1	Methanol
71-36-3	n-Butyl alcohol

Company Name

Vacuum Metallizing Ltd.

Highest Ranking Employee

Jeffrey Sugar

Report Submitted by

Jeffrey Sugar

Website address

<https://vacuummetallizing.wixsite.com/tsrp>

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2017	15/08/2018	VACUUM METALLIZING LIMITED	Ontario	Scarborough	NPRI,ON MOE TRA,ON MOE

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.14.0



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