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DoNothing

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# Report Preview

## Report Details

Report Year  
2015  
Report Type:  
NPRI,ON MOE TRA  
Report Status:  
Submitted  
Modified Date/Time:  
14/03/2016 12:27 PM

## Company and Facility Details

Company Name:  
Vacuum Metallizing Ltd.  
Business Number:  
105468771  
Mailing Address:  
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: 43.79580  
Longitude: -79.24590  
UTM Zone: 17  
UTM Easting: 641083  
UTM Northing: 4850698

## 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, Highest Ranking Employee, Person who prepared the report, Person who coordinated the preparation of the Toxics  
Reduction Plan, Public Contact  
Name:  
Jeffrey Sugar  
Position:  
President  
Telephone:  
4167543377  
Fax:  
4167548077  
Email:  
jsugar@vacuummetallizing.ca

## General Information

Number of employees:  
29  
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):  
Yes  
Was the facility shut down for more than one week during the year:  
Yes  
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

## Shutdown Periods:

From 2015-07-27 To 2015-08-07  
Summer holiday shutdown

## Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
78-93-3	Methyl ethyl ketone	0.9000	N/A	N/A	N/A	tonnes
108-10-1	Methyl isobutyl ketone	4.4600	N/A	N/A	N/A	tonnes
108-10-1	Methyl isobutyl ketone	4.4600	N/A	N/A	N/A	tonnes
108-88-3	Toluene	1.3200	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	35.2100	18.7400	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	3.3800	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
78-93-3	Methyl ethyl ketone	Yes	Yes		No
108-10-1	Methyl isobutyl ketone	Yes	Yes		No
108-88-3	Toluene	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		Yes
1330-20-7	Xylene (all isomers)	Yes	Yes		No

## 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
78-93-3	Methyl ethyl ketone	Yes	No	No
108-10-1	Methyl isobutyl ketone	Yes	No	No
108-88-3	Toluene	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
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
78-93-3	Methyl ethyl ketone	No	No	No
108-10-1	Methyl isobutyl ketone	No	No	No
108-88-3	Toluene	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			
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
78-93-3	Methyl ethyl ketone			As a physical or chemical processing aid
108-10-1	Methyl isobutyl ketone			As a physical or chemical processing aid
108-88-3	Toluene			As a physical or chemical processing aid
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)			As a physical or chemical processing aid

## Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment

CAS RN	Substance Name	Added/Removed	Comment
108-88-3	Toluene	Added	Usage increased above reporting threshold
1330-20-7	Xylene (all isomers)	Added	Usage increased above reporting threshold

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
78-93-3	Methyl ethyl ketone	Use	0.90 tonnes	No
78-93-3	Methyl ethyl ketone	Creation	0 tonnes	No
78-93-3	Methyl ethyl ketone	Contained in Product	0 tonnes	No
108-10-1	Methyl isobutyl ketone	Use	4.46 tonnes	No
108-10-1	Methyl isobutyl ketone	Creation	0 tonnes	No
108-10-1	Methyl isobutyl ketone	Contained in Product	0 tonnes	No
108-88-3	Toluene	Use	1.32 tonnes	No
108-88-3	Toluene	Creation	0.0 tonnes	No
108-88-3	Toluene	Contained in Product	0.0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Use	35.21 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		
1330-20-7	Xylene (all isomers)	Use	3.38 tonnes	No
1330-20-7	Xylene (all isomers)	Creation	0.0 tonnes	No
1330-20-7	Xylene (all isomers)	Contained in Product	0.0 tonnes	No

## TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
NA - 31	Heptane (all isomers)	Use	2.41 tonnes
64742-48-9	Hydrotreated heavy naphtha	Use	1.56 tonnes
67-56-1	Methanol	Use	1.15 tonnes
78-93-3	Methyl ethyl ketone	Use	0.90 tonnes
108-10-1	Methyl isobutyl ketone	Use	4.46 tonnes
64742-89-8	Solvent naphtha light aliphatic	Use	2.64 tonnes
64742-89-8	Solvent naphtha light aliphatic	Creation	0.0 tonnes
108-88-3	Toluene	Use	1.32 tonnes
8032-32-4	VM and P naphtha	Use	2.07 tonnes
1330-20-7	Xylene (all isomers)	Use	3.38 tonnes

## TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	19.89 tonnes
Creation	0.0 tonnes

## 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
78-93-3	Methyl ethyl ketone					No
108-10-1	Methyl isobutyl ketone					No
108-88-3	Toluene					No
NA - M16	Volatile Organic Compounds (VOCs)					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
78-93-3	Methyl ethyl ketone	Stack or Point Releases	C - Mass Balance		0.90 tonnes
108-10-1	Methyl isobutyl ketone	Stack or Point Releases	C - Mass Balance		4.46 tonnes
108-88-3	Toluene	Stack or Point Releases	C - Mass Balance		1.32 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	C - Mass Balance		35.21 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		35.21 tonnes
1330-20-7	Xylene (all isomers)	Stack or Point Releases	C - Mass Balance		3.38 tonnes

### On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
78-93-3	Methyl ethyl ketone	0.90 tonnes
108-10-1	Methyl isobutyl ketone	4.46 tonnes
108-88-3	Toluene	1.32 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	35.21 tonnes
1330-20-7	Xylene (all isomers)	3.38 tonnes

### On-site Releases - Releases to air - VOC Breakdown List

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	NA - 31	Heptane (all isomers)	2.41 tonnes
Other Sources - Speciated VOCs	64742-48-9	Hydrotreated heavy naphtha	1.56 tonnes
Other Sources - Speciated VOCs	78-93-3	Methyl ethyl ketone	0.90 tonnes
Other Sources - Speciated VOCs	108-10-1	Methyl isobutyl ketone	4.46 tonnes
Other Sources - Speciated VOCs	64742-89-8	Solvent naphtha light aliphatic	2.64 tonnes
Other Sources - Speciated VOCs	108-88-3	Toluene	1.32 tonnes
Other Sources - Speciated VOCs	8032-32-4	VM and P naphtha	2.07 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	3.38 tonnes

### On-site Releases - Total

CAS RN	Substance Name	Total releases
78-93-3	Methyl ethyl ketone	0.90 tonnes
108-10-1	Methyl isobutyl ketone	4.46 tonnes
108-88-3	Toluene	1.32 tonnes
1330-20-7	Xylene (all isomers)	3.38 tonnes

### On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
78-93-3	Methyl ethyl ketone	27	29	21	23
108-10-1	Methyl isobutyl ketone	27	29	21	23
108-88-3	Toluene	27	29	21	23
1330-20-7	Xylene (all isomers)	27	29	21	23

### On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NA - M16	Volatile Organic Compounds (VOCs)	9	9	9	9	10	10	8	5	8	8	8	7

### 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
108-10-1	Methyl isobutyl ketone	Changes in production levels Other (specify in On-site Releases comment field)	Substitution of MIBK for alternative solvent when thinning paints
108-88-3	Toluene	Changes in production levels Other (specify in On-site Releases comment field)	Change in thinners in paint formulation
1330-20-7	Xylene (all isomers)	Changes in production levels Other (specify in On-site Releases comment field)	Resumed using xylene as a paint thinner
78-93-3	Methyl ethyl ketone	Changes in production levels Other (specify in On-site Releases comment field)	Substitution of alternate solvent for MEK as thinner in paint formulations.
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels Other (specify in On-site Releases comment field)	Changes in paint formulations

### Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
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	
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
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	
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
78-93-3	Methyl ethyl ketone	No	Enters the facility (Use)	0.90 tonnes	2.66 tonnes	2014	-1.76	-66.17
78-93-3	Methyl ethyl ketone	No	Creation	0 tonnes	0 tonnes	2014	0	
78-93-3	Methyl ethyl ketone	No	Contained in Product	0 tonnes	0 tonnes	2014	0	
108-10-1	Methyl isobutyl ketone	No	Enters the facility (Use)	4.46 tonnes	4.62 tonnes	2014	-0.16	-3.46
108-10-1	Methyl isobutyl ketone	No	Creation	0 tonnes	0 tonnes	2014	0	
108-10-1	Methyl isobutyl ketone	No	Contained in Product	0 tonnes	0 tonnes	2014	0	
108-88-3	Toluene	No	Enters the facility (Use)	1.32 tonnes	0.0 tonnes	2014	1.32	100
108-88-3	Toluene	No	Creation	0.0 tonnes	0.0 tonnes	2014	0.0	
108-88-3	Toluene	No	Contained in Product	0.0 tonnes	0.0 tonnes	2014	0.0	
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	3.38 tonnes	0.0 tonnes	2014	3.38	100
1330-20-7	Xylene (all isomers)	No	Creation	0.0 tonnes	0.0 tonnes	2014	0.0	
1330-20-7	Xylene (all isomers)	No	Contained in Product	0.0 tonnes	0.0 tonnes	2014	0.0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
78-93-3	Methyl ethyl ketone	Increase in production levels Other	Replacement of MEK with other solvent for use as thinner in paint formulation
108-10-1	Methyl isobutyl ketone	Increase in production levels Decrease in production levels Other	Substitution of solvents as thinners in paint formulations
		Increase in production levels	

CAS RN	Substance Name	Reason(s) for Change	Other Reason
108-88-3	Toluene	Decrease in production levels Other	Resumed using of toluene as a paint thinner
1330-20-7	Xylene (all isomers)	Increase in production levels Decrease in production levels Other	Resumed using xylene as a paint thinner

## Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
78-93-3	Methyl ethyl ketone	No	Total Releases to Air	0.90 tonnes	2.66 tonnes	2014	-1.76	-66.17
78-93-3	Methyl ethyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to All Media	0 tonnes				
108-10-1	Methyl isobutyl ketone	No	Total Releases to Air	4.46 tonnes	4.62 tonnes	2014	-0.16	-3.46
108-10-1	Methyl isobutyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
108-10-1	Methyl isobutyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
108-10-1	Methyl isobutyl ketone	No	Total Releases to All Media	0 tonnes				
108-88-3	Toluene	No	Total Releases to Air	1.32 tonnes	0.0 tonnes	2014	1.32	100
108-88-3	Toluene	No	Total Releases to Water	0 tonnes	0.0 tonnes	2014	0.0	
108-88-3	Toluene	No	Total Releases to Land	0 tonnes	0.0 tonnes	2014	0.0	
108-88-3	Toluene	No	Total Releases to All Media	0 tonnes				
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	3.38 tonnes	0.0 tonnes	2014	3.38	100
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0.0 tonnes	2014	0.0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0.0 tonnes	2014	0.0	
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
78-93-3	Methyl ethyl ketone	Increase in production levels Other	Change in solvent used to thin paint
108-10-1	Methyl isobutyl ketone	Increase in production levels Decrease in production levels Other	Substitution of solvents used as thinners in paint formulations
108-88-3	Toluene	Increase in production levels Decrease in production levels Other	Resumed using toluene as a paint thinner
1330-20-7	Xylene (all isomers)	Increase in production levels Decrease in production levels Other	Resumed using toluene as a paint thinner

## Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was required by a P2 Planning Notice published under the Canadian Environmental Protection Act, 1999? Specify name in comments field below.

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

Yes

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

Water conservation

Please summarize your pollution prevention plan and/or your pollution prevention activities (this information will be publicly available)

Plans for water conservation have been implemented and City of Toronto no longer requires the facility to file or update its P2 plan.

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
64742-48-9	Hydrotreated heavy naphtha	Reduce the use of toxic substances
78-93-3	Methyl ethyl ketone	Plan provides only a general intent to reduce the use of toxic substances but does not quantify the amount of reductions or provide a timetable for said reductions.
108-10-1	Methyl isobutyl ketone	Reduce the use of MIBK.
64742-89-8	Solvent naphtha light aliphatic	Reduce the use of mineral spirits
108-88-3	Toluene	None. This substance is not covered by the TSRP.
8032-32-4	VM & P naphtha	Reduce the use of toxic substances at the facility
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
64742-48-9	Hydrotreated heavy naphtha	156 kg	0.4	Recycle and reuse mineral spirits used to wash out spray guns and paint lines. This target is for reduction of all mineral spirits used for this purpose. In 2012, company purchased only 1 drum of this substance.
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
108-10-1	Methyl isobutyl ketone	No quantity target	No timeline target	No quantitative target or timetable is specified for reducing MIBK.
64742-89-8	Solvent naphtha light aliphatic	990 kg	0.4	Reduction in the amount of mineral spirits used to rinse out paint guns and paint lines by reusing rinse for the same purpose or using rinse as a formulation ingredient in paints. Target amount also includes mineral spirits CAS 8052-41-3 which was used for this same purpose and is interchangeable with the subject toxic substance.
108-88-3	Toluene	No quantity target	No timeline target	
8032-32-4	VM & P naphtha	No quantity target	No timeline 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
64742-48-9	Hydrotreated heavy naphtha	No quantity target	No timeline target	Substance not created at the facility
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	Toxic substance is not created by the facility
108-10-1	Methyl isobutyl ketone	No quantity target	No timeline target	MIBK is not created at the facility.
64742-89-8	Solvent naphtha light aliphatic	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	
8032-32-4	VM & P naphtha	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

## Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	No steps taken in reporting period because option was fully implemented in a previous reporting period.	No steps taken in reporting period because option was fully implemented in a previous reporting period.	No steps taken in reporting period because option was fully implemented in a previous reporting period.	No steps taken in reporting period because option was fully implemented in a previous reporting period.
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	No steps taken in reporting period. Option has already been fully implemented.	No steps taken in reporting period. Option has already been fully implemented.	No steps taken in reporting period. Option has already been fully implemented.	No steps taken in reporting period. Option has already been fully implemented.

**Progress on TRA Plan - Reductions due to Options Implemented - On-site reuse, recycling or recovery**

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount

**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
64742-48-9	Hydrotreated heavy naphtha	No		
78-93-3	Methyl ethyl ketone	No		
108-10-1	Methyl isobutyl ketone	No		
64742-89-8	Solvent naphtha light aliphatic	No		
108-88-3	Toluene	No		
8032-32-4	VM & P naphtha	No		
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
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	



CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
108-88-3	Toluene	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
108-88-3	Toluene	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>recycled off-site</b> 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 <b>use</b> 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 <b>creation</b> 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 <b>contained in product</b> 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 <b>release to air</b> 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 <b>release to water</b> 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 <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance <b>disposed on-site</b> (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 <b>disposed off-site</b> (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 <b>recycled off-site</b> 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
64742-48-9	Hydrotreated heavy naphtha	No		
78-93-3	Methyl ethyl ketone	No		
108-10-1	Methyl isobutyl ketone	No		
64742-89-8	Solvent naphtha light aliphatic	No		
108-88-3	Toluene	No		
8032-32-4	VM & P naphtha	No		

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 14/03/2016, 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

CAS RN

NA - 31

Substance Name

Heptane (all isomers)

CAS RN

64742-48-9

Substance Name

Hydrotreated heavy naphtha

CAS RN

67-56-1

Substance Name

Methanol

CAS RN

78-93-3

Substance Name

Methyl ethyl ketone

CAS RN

108-10-1

Substance Name

Methyl isobutyl ketone

CAS RN

64742-89-8

Substance Name

Solvent naphtha light aliphatic

CAS RN

108-88-3

Substance Name

Toluene

CAS RN

8032-32-4

Substance Name

VM & P naphtha

CAS RN

NA - M16

Substance Name

Volatile Organic Compounds (VOCs)

CAS RN

1330-20-7

Substance Name

Xylene (all isomers)

Company Name  
Vacuum Metallizing Ltd.  
Highest Ranking Employee  
Jeffrey Sugar  
Report Submitted by  
Jeffrey Sugar  
Website address

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  
Period  
2015  
Submission Date  
14/03/2016  
Facility Name  
VACUUM METALLIZING LIMITED  
Province  
Ontario  
City  
Scarborough  
Programs  
NPRI\_ON MOE TRA

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.

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