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# Report Preview

## Report Details

Report Year

2014

Report Type:

NPRI,ON MOE TRA

Report Status:

Update 1 - Submitted

Modified Date/Time:

23/08/2017 4:00 PM

Report Update Comments:

To create exit records for heptane (CAS 142-82-5) which was not reported in 2014 and to add a plan summary for n'butyl alcohol (CAS 71-36-3) which exceeded the reporting threshold.

## 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 2014-08-04 To 2014-08-09

**Substance List**

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
78-93-3	Methyl ethyl ketone	2.6600	N/A	N/A	N/A	tonnes
108-10-1	Methyl isobutyl ketone	4.6200	N/A	N/A	N/A	tonnes
108-10-1	Methyl isobutyl ketone	4.6200	N/A	N/A	N/A	tonnes
71-36-3	n-Butyl alcohol	1.0460	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	33.7510	17.2150	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
71-36-3	n-Butyl alcohol	Yes	Yes		Yes
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No

**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
NA - 31	Heptane (all isomers)	The substance did not meet the criteria to provide information to NPRI	Usage of the substance fell below the reporting threshold and is not expected to rise above the threshold in future years.	Purchasing and inventory records for the substance, paint formulations which no longer use subject contaminant as a thinner.

**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 1 tonne or more of a Part 5 Substance (Speciated 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
71-36-3	n-Butyl alcohol	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes

**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
71-36-3	n-Butyl alcohol	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			

**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
71-36-3	n-Butyl alcohol		As a formulation component	

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - M16	Volatile Organic Compounds (VOCs)			

## Substances added to/removed from the report

CAS RN	Substance Name Added/Removed	Comment
71-36-3	n-Butyl alcohol	Added
		Substance exceeded reporting threshold for first time.

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
78-93-3	Methyl ethyl ketone	Use	2.66 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	4.62 tonnes	No
108-10-1	Methyl isobutyl ketone	Creation	0 tonnes	No
108-10-1	Methyl isobutyl ketone	Contained in Product	0 tonnes	No
71-36-3	n-Butyl alcohol	Use	1.05 tonnes	No
71-36-3	n-Butyl alcohol	Creation	0.0 tonnes	No
71-36-3	n-Butyl alcohol	Contained in Product	0.0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Use	33.75 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		

## TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
64742-48-9	Hydrotreated heavy naphtha	Use	1.394 tonnes
78-93-3	Methyl ethyl ketone	Use	2.660 tonnes
108-10-1	Methyl isobutyl ketone	Use	4.621 tonnes
64742-89-8	Solvent naphtha light aliphatic	Use	3.074 tonnes
64742-89-8	Solvent naphtha light aliphatic	Creation	0.0 tonnes
8032-32-4	VM and P naphtha	Use	1.917 tonnes
1330-20-7	Xylene (all isomers)	Use	3.549 tonnes

## TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	17.215 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
71-36-3	n-Butyl alcohol					No
NA - M16	Volatile Organic Compounds (VOCs)					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		2.66 tonnes

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
108-10-1	Methyl isobutyl ketone	Stack or Point Releases	C - Mass Balance		4.62 tonnes
71-36-3	n-Butyl alcohol	Stack or Point Releases	C - Mass Balance		1.046 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	C - Mass Balance		33.751 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		33.751 tonnes

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

CAS RN	Substance Name	Total - Releases to Air
78-93-3	Methyl ethyl ketone	2.66 tonnes
108-10-1	Methyl isobutyl ketone	4.62 tonnes
71-36-3	n-Butyl alcohol	1.046 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	33.751 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	64742-48-9	Hydrotreated heavy naphtha	1.394 tonnes
Other Sources - Speciated VOCs	78-93-3	Methyl ethyl ketone	2.660 tonnes
Other Sources - Speciated VOCs	108-10-1	Methyl isobutyl ketone	4.621 tonnes
Other Sources - Speciated VOCs	64742-89-8	Solvent naphtha light aliphatic	3.074 tonnes
Other Sources - Speciated VOCs	8032-32-4	VM and P naphtha	1.917 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	3.549 tonnes

### On-site Releases - Total

CAS RN	Substance Name	Total releases
78-93-3	Methyl ethyl ketone	2.66 tonnes
108-10-1	Methyl isobutyl ketone	4.62 tonnes
71-36-3	n-Butyl alcohol	1.046 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
71-36-3	n-Butyl alcohol	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
71-36-3	n-Butyl alcohol	Not applicable (first year reporting this substance)	
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.

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year		Comments
		Changes in production levels	Other (specify in On-site Releases comment field)	
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	
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
108-10-1	Methyl isobutyl ketone		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
64742-48-9	Hydrotreated heavy naphtha	Yes	Enters the facility (Use)	1.394 tonnes	0.0 tonnes	2013	1.394	100
78-93-3	Methyl ethyl ketone	No	Enters the facility (Use)	2.66 tonnes	1.56 tonnes	2013	1.10	70.51
78-93-3	Methyl ethyl ketone	No	Creation	0 tonnes	0 tonnes	2013	0	
78-93-3	Methyl ethyl ketone	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
78-93-3	Methyl ethyl ketone	Yes	Enters the facility (Use)	2.660 tonnes	1.560 tonnes	2013	1.100	70.51
108-10-1	Methyl isobutyl ketone	No	Enters the facility (Use)	4.62 tonnes	2.31 tonnes	2013	2.31	100
108-10-1	Methyl isobutyl ketone	No	Creation	0 tonnes	0 tonnes	2013	0	
108-10-1	Methyl isobutyl ketone	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
108-10-1	Methyl isobutyl ketone	Yes	Enters the facility (Use)	4.621 tonnes	2.310 tonnes	2013	2.311	100.04
64742-89-8	Solvent naphtha light aliphatic	Yes	Enters the facility (Use)	3.074 tonnes	2.478 tonnes	2013	0.596	24.05
8032-32-4	VM and P naphtha	Yes	Enters the facility (Use)	1.917 tonnes	2.580 tonnes	2013	-0.663	-25.70

### 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 Other	Substitution of solvents as thinners in paint formulations
NA - M16	Volatile Organic Compounds (VOCs)	No reasons - quantities approximately the same	

### Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
64742-48-9	Hydrotreated heavy naphtha	Yes	Total Releases to Air	1.394 tonnes	0 tonnes	2013	1.394	100
78-93-3	Methyl ethyl ketone	No	Total Releases to Air	2.66 tonnes	1.56 tonnes	2013	1.10	70.51

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 Water	0 tonnes	0 tonnes	2013	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to All Media	0 tonnes				
78-93-3	Methyl ethyl ketone	Yes	Total Releases to Air	2.660 tonnes	1.560 tonnes	2013	1.100	70.51
108-10-1	Methyl isobutyl ketone	No	Total Releases to Air	4.62 tonnes	2.31 tonnes	2013	2.31	100
108-10-1	Methyl isobutyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
108-10-1	Methyl isobutyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
108-10-1	Methyl isobutyl ketone	No	Total Releases to All Media	0 tonnes				
108-10-1	Methyl isobutyl ketone	Yes	Total Releases to Air	4.621 tonnes	2.310 tonnes	2013	2.311	100.04
64742-89-8	Solvent naphtha light aliphatic	Yes	Total Releases to Air	3.074 tonnes	2.478 tonnes	2013	0.596	24.05
8032-32-4	VM and P naphtha	Yes	Total Releases to Air	1.917 tonnes	2.580 tonnes	2013	-0.663	-25.70

### 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 Other	Substitution of solvents used as thinners in paint formulations
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels Decrease in production levels Other	Change in paint formulations and thinners used to reduce paints.

### 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.

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

No

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
8032-32-4	VM & P naphtha	Reduce the use of toxic substances at the facility

### Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
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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.
8032-32-4	VM & P naphtha	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	
8032-32-4	VM & P naphtha	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 new steps taken.	No new steps taken.	No new steps taken.	No new steps taken.
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	No steps taken	No steps taken	No steps taken	No steps taken

### 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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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		
8032-32-4	VM & P naphtha	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.	
64742-48-9	Hydrotreated heavy 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.	
64742-48-9	Hydrotreated heavy 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.	
64742-48-9	Hydrotreated heavy 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.	
64742-48-9	Hydrotreated heavy 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.	
64742-48-9	Hydrotreated heavy 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.	
64742-48-9	Hydrotreated heavy 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.	
64742-48-9	Hydrotreated heavy 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.	
64742-48-9	Hydrotreated heavy 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.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
108-10-1	Methyl isobutyl ketone	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	
64742-89-8	Solvent naphtha light aliphatic	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.	

**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		

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
78-93-3	Methyl ethyl ketone	No		
108-10-1	Methyl isobutyl ketone	No		
64742-89-8	Solvent naphtha light aliphatic	No		
8032-32-4	VM & P naphtha	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 23/08/2017, 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

78-93-3

Substance Name

Methyl ethyl ketone

CAS RN

108-10-1

Substance Name

Methyl isobutyl ketone

CAS RN

71-36-3

Substance Name

n-Butyl alcohol

#### Exit Record Certification Statement

As of 23/08/2017, 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

CAS RN

NA - 31

Substance Name

Heptane (all isomers)

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

Period

2014

Submission Date

23/08/2017

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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Version:

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