



National Pollutant Release Inventory (NPRI) and



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Report Preview

Report Details

Report Year:	2015
Report Type:	NPRI, ON MOE TRA
Report Status:	Ready to Submit
Modified Date/Time:	14/03/2016 12:00 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
NAJCS 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
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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
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	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	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	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	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		
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	0.0 tonnes	No

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained	Quantity
NA - 31	Heptane (all isomers)	Use	2.41 tonnes
NA - 31	Heptane (all isomers)	Creation	2.41 tonnes
NA - 31	Heptane (all isomers)	Contained	2.41 tonnes
64742-48-9	Hydrotreated heavy naphtha	Use	1.56 tonnes
64742-48-9	Hydrotreated heavy naphtha	Creation	1.56 tonnes
64742-48-9	Hydrotreated heavy naphtha	Contained	1.56 tonnes
67-56-1	Methanol	Use	1.15 tonnes
67-56-1	Methanol	Creation	1.15 tonnes
67-56-1	Methanol	Contained	1.15 tonnes
78-93-3	Methyl ethyl ketone	Use	0.90 tonnes
78-93-3	Methyl ethyl ketone	Creation	0.90 tonnes
78-93-3	Methyl ethyl ketone	Contained	0.90 tonnes
108-10-1	Methyl isobutyl ketone	Use	4.46 tonnes
108-10-1	Methyl isobutyl ketone	Creation	4.46 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 Disposed from Previous Year	Comments (Disposals)
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 Disposed from Previous Year	Comments (Disposals)
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	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	

CAS RN	Substance Name	Reason(s) for Change	Other Reason
1330-20-7	Xylene (all isomers)	Other 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 - 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 - Description

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	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
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 use 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 creation 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 contained in product 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 release to air 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 release to water 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 release to land 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 disposed on-site (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 disposed off-site (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 recycled off-site 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 use 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 creation 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 contained in product 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 release to air 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 release to water 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 release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	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.	
78-93-3	Methyl ethyl ketone	The amount of reduction in the substance recycled off-site 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 use 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 creation 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 contained in product 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 release to air 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 release to water 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 release to land 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 disposed on-site (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 disposed off-site (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 recycled off-site 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 use 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 creation 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 contained in product at the facility during the reporting period that resulted due to the additional actions.	

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		
1330-20-7	Xylene (all isomers)	No		

Empty

Version: 3.9.0



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SOLVENT CONSUMPTION INFORMATION

CALENDAR YEAR 2015

PREPARED MARCH 11, 2016

SOLVENT NAME	CAS	ANNUAL LITRES	QUANTITY		SPECIFIC GRAVITY	%USED AS THINNER	% CONTAINED IN PAINT	% RECYCLED	% Total Usage		Incr. 2015 vs 2014		
			KG.	TONNES					Litres	Kg	Tomnes	%	
<u>Aliphatic Hydrocarbons</u>													
Heptane	142-82-5	3,529	2,414	2,414	0.6840	100%	0%	0.0	7.9%	6.9%	1562	1.56	183%
Mineral Spirits	8052-41-3	407	314	0.314	0.7720	100%	0%	0.0	0.9%	0.9%	-157	-0.16	-33%
	8032-32-4	2,722	2069	2,069	0.7600	0%	100%	0.0	6.1%	5.9%	152	0.15	8%
	64742-48-9	2,046	1555	1,555	0.7600	15%	85%	0.0	4.6%	4.4%	161	0.16	12%
	64742-89-8	3,519	2,639	2,639	0.7500	0%	100%	0.0	7.9%	7.5%	-435	-0.44	-14%
	64742-49-0	3,537	2,635	2,635	0.7450	0%	100%	0.0	7.9%	7.5%	310	0.31	13%
Total Mineral Spirits		15,760	11,626	11,626					35.3%	33.0%	4,580	4.58	49%
<u>Aromatic Hydrocarbons</u>													
Toluene	108-88-3	1,517	1,317	1,317	0.8680	0%	100%	0.0	3.4%	3.7%	386	0.39	41%
Hisol 10	64742-95-6	7	7	0.007	0.8700	0%	100%	0.0	0.0%	0.0%	-531	-0.53	-99%
Xylene	1330-20-7	3,892	3,378	3,378	0.8680	0%	100%	0.0	8.7%	9.6%	-171	-0.17	-5%
Ethyl Benzene	100-41-4	60	52	0.052	0.8710	0%	100%	0.0	0.1%	0.1%	8	0.01	17%
Trimethylbenzene 1,2,4	95-63-6	0	0.0	0.000	0.8800	0%	100%	0.0	0.0%	0.0%	0	0.00	n/a
Solvent Naptha, Aromatic distillate	64742-94-5	0	0.0	0.000	0.9300	0%	100%	0.0	0.0%	0.0%	0	0.00	n/a
Napthalene	91-20-3	0	0.0	0.000	0.9900	0%	100%	0.0	0.0%	0.0%	0	0.00	n/a
<u>Ketones</u>													
Acetone	67-64-1	3,868	3,063	3,063	0.7920	1%	99%	0.0	8.7%	8.7%	285	0.29	10%
M.I.B.K.	108-10-1	5,556	4,456	4,456	0.8020	1%	99%	0.0	12.4%	12.7%	-165	-0.16	-4%
M.E.K.	78-93-3	1,122	904	0.904	0.8060	0%	100%	0.0	2.5%	2.6%	-1756	-1.76	-66%
M. A. K.	110-43-0	9	7.2	0.007	0.8170	0%	100%	0.0	0.0%	0.0%	0	0.00	2%
<u>Alcohols</u>													
Methanol	67-56-1	1,446	1,148	1,148	0.7940	0%	100%	0.0	3.2%	3.3%	656	0.66	133%
n'Butyl Alcohol	71-36-3	1,478	1,198	1,198	0.8110	0%	100%	0.0	3.3%	3.4%	152	0.15	15%
Diacetone Alcohol	123-42-2	514	483	0.483	0.9400	0%	100%	0.0	1.2%	1.4%	-537	-0.54	-53%
Ethyl Alcohol	64-17-5	407	322	0.322	0.7900	0%	100%	0.0	0.9%	0.9%	-358	-0.36	-53%
<u>Glycol Ethers/Ester Acetates</u>													
nButyl Acetate	123-86-4	1,068	942	0.942	0.8820	0%	100%	0.0	2.4%	2.7%	863	0.85	956%
Glycol Ether PM Acetate	108-65-6	4	4.2	0.004	0.9600	0%	100%	0.0	0.0%	0.0%	4	0.00	873%
Dipropylene Glycol Methyl Ether	34590-94-8	1,027	976	0.976	0.9500	0%	100%	0.0	2.3%	2.8%	195	0.20	26%
Diethylene Glycol Monomethyl Ether	111-77-3	0	0.0	0.000	1.0280	n/a	n/a	0.0	0.0%	0.0%	0	0.00	n/a
Propylene Glycol Monomethyl Ether	107-98-2	823	760	0.760	0.9240	0%	100%	0.0	1.8%	2.2%	-380	-0.38	-33%
Dipropylene Glycol Methyl Ether Acetate	88917-22-0	0	0.0	0.000	0.9500	n/a	n/a	0.0	0.0%	0.0%	0	0.00	n/a
2-Butoxethanol	111-76-2	954	858	0.858	0.9000	0%	100%	0.0	2.1%	2.4%	1	0.00	0%
Isobutyl Acetate	110-19-0	1,047	912	0.912	0.8710	0%	100%	0.0	2.3%	2.6%	-999	-1.00	-52%
Primry Amyl Acetate	628-63-7	256	225	0.225	0.8800	0%	100%	0.0	0.6%	0.6%	-251	-0.25	-53%
Ethyl 3-Ethoxypropionate	763-69-9	0	0.3	0.000	0.9490	0%	100%	0.0	0.0%	0.0%	0	0.00	0%
Polyethylene Glycol	104810-47-1	0	0.00	0.000	1.1000	0%	100%	0.0	0.0%	0.0%	0	0.00	n/a
Polyethylene Glycol	104810-48-2	0	0.00	0.000	1.1000	0%	100%	0.0	0.0%	0.0%	0	0.00	n/a
2-Butoxyethyl Acetate	112-07-2	2	1.68	0.002	0.9400	0%	100%	0.0	0.0%	0.0%	0	0.00	-3%