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General Information

Report Details

Report Year: 2022

Report Type(s)/Program(s): NPRI

Report Status: Submitted

Submitted Date: 2023-05-09 4:26:12 PM

Report Creation Type: Prepopulated

Company Idm Id: 15215

Facility Idm Id: 9542

Company Information

Legal Name: Vacuum Metallizing Ltd.

Business Number: 105468771

Dun & Bradstreet Number: 201775988

Mailing Address: 30 Dovedale Court, Toronto, Ontario, M5M 4G2, Canada

Contacts

Contact Type	Name	Phone	Extension	Email	Position	Correspondence Language	Company Name
Technical Contact	Jeffrey Sugar	416-754-3377	104	jsugar@vacuummetallizing.ca	President	English	
Certifying Official	Jeffrey Sugar	416-754-3377	104	jsugar@vacuummetallizing.ca	President	English	
Public Contact	Jeffrey Sugar	416-754-3377	104	jsugar@vacuummetallizing.ca	President	English	
Company Coordinator	Jeffrey Sugar	416-754-3377	104	jsugar@vacuummetallizing.ca	President	English	

Facility Information

Facility Name: VACUUM METALLIZING LIMITED

Physical Address: 30 Dovedale Court, Scarborough, Ontario, M1S 5A7, Canada

Latitude and longitude: 43.795800, -79.245900

Primary NAICS Code: 332810

Number of full-time employee equivalents: 38

Is this a portable facility?: No

Identifiers, Environmental Regulations, and Permit Numbers

Type of Identifier or Issuing Agency of Permit	Identifier or Permit Number
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National Pollutant Release Inventory Identifier	7102
Ministry of the Environment of Ontario	3538-75DKEM

General Reporting Questions

Do you want to report any Part 1A substances?: Yes

Do you want to report any Part 1B substances?: No

Is the facility subject to the Chromium Electroplating, Chromium Anodizing and Reverse Etching Regulations (SOR/2009-162)?: No

Do you want to report any Part 2 substances?: No

Did wood preservation using creosote occur at the facility, and were PAHs released, disposed of, or transferred as a result of wood preservation using creosote?: No

Do any of the following activities take place at the facility, regardless of the number of employees at the facility?: None

Do employees at the facility work a total of 20 000 hours or more AND do any of the following activities take place at the facility?: None

Do you want to report any Part 4 substances?: Yes

Do you want to report any Part 5 substances?: Yes

Does the facility have a P2 Plan?: Yes

Did the facility complete any pollution prevention activities in the current NPRI reporting year?: No

Did the facility operate one or more electricity generating units that had a capacity of 25 MW or more and that distributed or sold to the grid 33% or more of its potential electrical output in the calendar year?: No

Facility Operating Schedule and Shutdown Periods

Usual operating day(s) of the facility: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Usual Number of Operating Hours per day in decimal number (hh.mm): 9.50

Usual Daily Start Time (hh:mm): 07:00

Was the facility shut down for more than one week during the year?: Yes

Shutdown Periods

Start date	End date	Will the shutdown period occur at or around the same time in future years	Was the shutdown period a partial or complete shutdown	Comments

2022-07-23	2022-08-07	Yes	Full	Facility shuts down for two weeks annually
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Summary of Releases, Disposals and Recycling

Parts 1-3 Substances

CAS RN	Substance Name	Substance Part	Releases	Releases to All Media < 1 tonnes	Disposals	Recycling	Unit	Nature of activities	Required / Voluntary / NERM Only
108-10-1	Methyl isobutyl ketone	1A	1.981				tonnes	As a formulation component, As a manufacturing aid	Required
108-88-3	Toluene	1A	1.345				tonnes	As a formulation component, As a manufacturing aid	Required
111-76-2	2-Butoxyethanol	1A	3.082				tonnes	As a formulation component, As a manufacturing aid	Required
1330-20-7	Xylene (all isomers)	1A	1.221				tonnes	As a formulation component, As a manufacturing aid	Required
78-93-3	Methyl ethyl ketone	1A	4.172				tonnes	As a formulation component, As a manufacturing aid	Required

Parts 4-5 Substances

CAS RN	Substance Name	Substance Part	Releases to air (tonnes)	Required / Voluntary / NERM Only
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NA - M16	Volatile Organic Compounds (total)	4	27.4	Required
108-10-1	Methyl isobutyl ketone	5	1.981	
108-65-6	Propylene glycol methyl ether acetate (all isomers)	5	0.001	
108-88-3	Toluene	5	1.345	
111-76-2	2-Butoxyethanol	5	3.082	
1330-20-7	Xylene (all isomers)	5	1.221	
50-00-0	Formaldehyde	5	0.023	
64742-47-8	Hydrotreated light distillate	5	1.268	
64742-48-9	Hydrotreated heavy naphtha	5	0.326	
64742-88-7	Solvent naphtha medium aliphatic	5	1.797	
64742-89-8	Solvent naphtha light aliphatic	5	0.6	
64742-94-5	Heavy aromatic solvent naphtha	5	0.02	
64742-95-6	Light aromatic solvent naphtha	5	0.01	
67-63-0	Isopropyl alcohol	5	0.118	
78-93-3	Methyl ethyl ketone	5	4.172	
8032-32-4	VM and P naphtha	5	0.6	
8052-41-3	Stoddard solvent	5	0.575	
N/A	Speciated VOCs (62 substances)	5	18.625	Required
NA - 41	Butyl acetate (all isomers)	5	1.088	
NA - 45	Other glycol ethers and acetates (and their isomers)	5	0.398	

Releases to Air, Water and Land

Releases to Air, Water and Land

CAS RN	Substance Name	Substance Part	Type	Release Category	Basis of Estimate	Detail Code	Quantity	Unit
108-10-1	Methyl isobutyl ketone	1A	Releases to air	Stack or Point Releases	C - Mass Balance		1.981	tonnes
108-88-3	Toluene	1A	Releases to air	Stack or Point Releases	C - Mass Balance		1.345	tonnes
111-76-2	2-Butoxyethanol	1A	Releases to air	Stack or Point Releases	C - Mass Balance		3.082	tonnes
1330-20-7	Xylene (all isomers)	1A	Releases to air	Stack or Point Releases	C - Mass Balance		1.221	tonnes
78-93-3	Methyl ethyl ketone	1A	Releases to air	Stack or Point Releases	C - Mass Balance		4.172	tonnes
NA - M16	Volatile Organic Compounds (total)	4	Releases to air	Storage tank and related handling releases	C - Mass Balance		27.4	tonnes
108-10-1	Methyl isobutyl ketone	5		Speciated VOCs - Other Sources	O - Engineering Estimates		1.981	tonnes
108-65-6	Propylene glycol methyl ether acetate (all isomers)	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.001	tonnes
108-88-3	Toluene	5		Speciated VOCs - Other Sources	O - Engineering Estimates		1.345	tonnes
111-76-2	2-Butoxyethanol	5		Speciated VOCs - Other	O - Engineering		3.082	tonnes

111-76-2	2-Butoxyethanol	5		Sources	Estimates		3.082	tonnes
1330-20-7	Xylene (all isomers)	5		Speciated VOCs - Other Sources	O - Engineering Estimates		1.221	tonnes
50-00-0	Formaldehyde	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.023	tonnes
64742-47-8	Hydrotreated light distillate	5		Speciated VOCs - Other Sources	O - Engineering Estimates		1.268	tonnes
64742-48-9	Hydrotreated heavy naphtha	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.326	tonnes
64742-88-7	Solvent naphtha medium aliphatic	5		Speciated VOCs - Other Sources	O - Engineering Estimates		1.797	tonnes
64742-89-8	Solvent naphtha light aliphatic	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.6	tonnes
64742-94-5	Heavy aromatic solvent naphtha	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.02	tonnes
64742-95-6	Light aromatic solvent naphtha	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.01	tonnes
67-63-0	Isopropyl alcohol	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.118	tonnes
78-93-3	Methyl ethyl ketone	5		Speciated	O -		4.172	tonnes

78-93-3	Methyl ethyl ketone	5		VOCs - Other Sources	Engineering Estimates		4.172	tonnes
8032-32-4	VM and P naphtha	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.6	tonnes
8052-41-3	Stoddard solvent	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.575	tonnes
N/A	Speciated VOCs (62 substances)	5		Speciated VOCs - Other Sources	O - Engineering Estimates		18.625	tonnes
NA - 41	Butyl acetate (all isomers)	5		Speciated VOCs - Other Sources	O - Engineering Estimates		1.088	tonnes
NA - 45	Other glycol ethers and acetates (and their isomers)	5		Speciated VOCs - Other Sources	O - Engineering Estimates		0.398	tonnes

Reasons for Change, Releases to Air and Land Comments, and Substance Release Comments

CAS RN	Substance Name	Substance Part	Reasons for Change	Nature of "Other Non-Point Releases" release comments	Nature of "Other" land release comments	Substance Release Comment
108-10-1	Methyl isobutyl ketone	1A	Decrease in production levels			
108-88-3	Toluene	1A	Increase in production levels; Other			Increased use of substance in paint formulations

111-76-2	2-Butoxyethanol	1A	Increase in production levels; Other			Increased use of substance in paint formulations
1330-20-7	Xylene (all isomers)	1A	Decrease in production levels; Other			Decreased use of substance in paint formulations
78-93-3	Methyl ethyl ketone	1A	Increase in production levels; Other			Increased use of substance in paint formulations
NA - M16	Volatile Organic Compounds (total)	4	No significant change			
N/A	Speciated VOCs (62 substances)	5	Decrease in production levels; Other			Decrease in speciated VOC's used in paint formulations

Parts 1-3 Substances Quarterly Percentage Breakdown

CAS RN	Substance Name	Substance Part	January - March %	April - June %	July - September %	October - December %
1330-20-7	Xylene (all isomers)	1A	30	25	20	25
108-10-1	Methyl isobutyl ketone	1A	30	25	20	25
108-88-3	Toluene	1A	30	25	20	25
78-93-3	Methyl ethyl ketone	1A	30	25	20	25
111-76-2	2-Butoxyethanol	1A	30	25	20	25

Parts 4-5 Substances Monthly Percentage Breakdown

CAS RN	Substance Name	Substance Part	Jan %	Feb %	Mar %	Apr %	May %	Jun %	Jul %	Aug %	Sep %	Oct %	Nov %	Dec %
N/A	Speciated VOCs (62 substances)	5	9	9	9	9	8	9	6	6	8	9	9	9
NA - M16	Volatile Organic Compounds (total)	4	9	9	9	9	8	9	6	6	8	9	9	9

Releases of Part 5 Speciated Volatile Organic Compounds (VOCs) from individual stacks/flares and from other sources

CAS RN	Substance Name	Stack/flare or other sources	Quantity (tonnes)	Basis of estimate
108-10-1	Methyl isobutyl ketone	Other sources	1.981	O - Engineering Estimates
108-65-6	Propylene glycol methyl ether acetate (all isomers)	Other sources	0.001	O - Engineering Estimates
108-88-3	Toluene	Other sources	1.345	O - Engineering Estimates
111-76-2	2-Butoxyethanol	Other sources	3.082	O - Engineering Estimates
1330-20-7	Xylene (all isomers)	Other sources	1.221	O - Engineering Estimates
50-00-0	Formaldehyde	Other sources	0.023	O - Engineering Estimates
64742-47-8	Hydrotreated light distillate	Other sources	1.268	O - Engineering Estimates

64742-48-9	Hydrotreated heavy naphtha	Other sources	0.326	O - Engineering Estimates
64742-88-7	Solvent naphtha medium aliphatic	Other sources	1.797	O - Engineering Estimates
64742-89-8	Solvent naphtha light aliphatic	Other sources	0.6	O - Engineering Estimates
64742-94-5	Heavy aromatic solvent naphtha	Other sources	0.02	O - Engineering Estimates
64742-95-6	Light aromatic solvent naphtha	Other sources	0.01	O - Engineering Estimates
67-63-0	Isopropyl alcohol	Other sources	0.118	O - Engineering Estimates
78-93-3	Methyl ethyl ketone	Other sources	4.172	O - Engineering Estimates
8032-32-4	VM and P naphtha	Other sources	0.6	O - Engineering Estimates
8052-41-3	Stoddard solvent	Other sources	0.575	O - Engineering Estimates
NA - 41	Butyl acetate (all isomers)	Other sources	1.088	O - Engineering Estimates
NA - 45	Other glycol ethers and acetates (and their isomers)	Other sources	0.398	O - Engineering Estimates

On-site and Off-site Disposals

Reasons for Disposal, Reasons for Change and Substance Disposal Comments

CAS RN	Substance Name	Substance	Reasons for Disposal	Reasons for Change	Substance Disposal
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CAS RN	Substance Name	Part	Reasons for Disposal	Reasons for Change	Comments
108-10-1	Methyl isobutyl ketone	1A		No significant change	
108-88-3	Toluene	1A		No significant change	
111-76-2	2-Butoxyethanol	1A		No significant change	
1330-20-7	Xylene (all isomers)	1A		No significant change	
78-93-3	Methyl ethyl ketone	1A		No significant change	

Recycling

Reasons for Recycling, Reasons for Change and Substance Recycling Comments

CAS RN	Substance Name	Substance Part	Reasons for Recycling	Reasons for Change	Substance Recycling Comments
108-10-1	Methyl isobutyl ketone	1A		No significant change	
108-88-3	Toluene	1A		No significant change	
111-76-2	2-Butoxyethanol	1A		No significant change	
1330-20-7	Xylene (all isomers)	1A		No significant change	
78-93-3	Methyl ethyl ketone	1A		No significant change	

Special Reports

Pollution Prevention Plan

Plan was prepared or implemented for another government jurisdiction: Yes

Pollution Prevention Plans - Comments: City of Toronto P2 Plan

Plan was prepared or implemented on a voluntary basis: No

Reasons no pollution prevention activities were completed: Activities were implemented in a previous year; additional activities are either unnecessary or unfeasible at this time, Concern that product quality may decline as a result of activities

Feedback

Specify your level of satisfaction: Completely satisfied. The reporting system works well and saves me time.

Report Submission and Electronic Certification

Specify the language of correspondence: English

Company name: Vacuum Metallizing Ltd.

Certifying Official: 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.: Yes