

National Pollutant Release Inventory (NPRI) and



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Report Preview

Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	19/05/2017 9:56 AM

Company and Facility Details

Company Name:	EMI RFI Shield Plating Inc.
Business Number:	101630168
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 1 - 123 Manville Road Road Southeast City, Province/Territory, Postal Code: Toronto Ontario M1L4J8 Country: Canada
Facility Name:	EMIRFI SHIELD PLATING INC.
NAICS Code:	332810
NPRI ID:	5964
ON Reg 127/01 ID:	5744
Physical Address:	Address Line 1: Unit 1 - 123 Manville Road City, Province/Territory, Postal Code: Scarborough Ontario M1L4J8 Country: Canada Latitude: 43.72570 Longitude: -79.28230 UTM Zone: 17 UTM Easting: 638372 UTM Northing: 4842875

Permits

Number or Permit Number:	3842-58LPB3
Government Department, Agency, or Program Name:	ON MOE

Contacts Details

Contact Type	Technical Contact, Certifying Official, Highest Ranking Employee, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Kaarle Ottonen
Position:	Environmental Compliance Manager
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General Information

Number of employees:	38
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene:	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:	8
Usual Daily Start Time (24h) (hh:mm):	07:30

Shutdown Periods:

From 2016-07-25 To 2016-08-02	
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Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 03	Cadmium (and its compounds)	0.1500	N/A	2.0750	N/A	kg
NA - 19	Hexavalent chromium (and its compounds)	0.2510	N/A	N/A	N/A	kg
67-56-1	Methanol	10.5560	N/A	N/A	N/A	tonnes
7664-93-9	Sulphuric acid	0.0393	N/A	4.1660	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	10.5590	5.6760	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
NA - 03	Cadmium (and its compounds)	Yes	Yes		No
NA - 19	Hexavalent chromium (and its compounds)	No	No		No
67-56-1	Methanol	Yes	Yes		No
7664-93-9	Sulphuric acid	Yes	Yes		No
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 - 19	Hexavalent chromium (and its compounds)	The substance did not meet the criteria to provide information to NPRI	The company has moved away from the use of hexavalent chromium	The amount of hexavalent chromium used was reduced to 22.14 kg

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
NA - 03	Cadmium (and its compounds)	Yes	No	No
NA - 19	Hexavalent chromium (and its compounds)	Yes	No	No
67-56-1	Methanol	Yes	No	No
7664-93-9	Sulphuric acid	Yes	No	No

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
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
NA - 03	Cadmium (and its compounds)	Yes	No	No
NA - 19	Hexavalent chromium (and its compounds)	No	No	No
67-56-1	Methanol	No	No	No
7664-93-9	Sulphuric acid	Yes	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
NA - 03	Cadmium (and its compounds)		As a formulation component	
NA - 19	Hexavalent chromium (and its compounds)		As an article component	
67-56-1	Methanol			As a manufacturing aid
7664-93-9	Sulphuric acid		As a formulation component	
NA - M16	Volatile Organic Compounds (VOCs)			

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
NA - 03	Cadmium (and its compounds)	Use	100 kg	No
NA - 03	Cadmium (and its compounds)	Creation	0 kg	No
NA - 03	Cadmium (and its compounds)	Contained	47.7 kg	Yes
67-56-1	Methanol	Use	10.56 tonnes	Yes
67-56-1	Methanol	Creation	0 tonnes	No
67-56-1	Methanol	Contained	0 tonnes	No
7664-93-9	Sulphuric acid	Use	19.348 tonnes	Yes
7664-93-9	Sulphuric acid	Creation	0 tonnes	No
7664-93-9	Sulphuric acid	Contained	0 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Use	10.56 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained		

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained	Quantity
67-56-1	Methanol	Use	10.560 tonnes
67-56-1	Methanol	Creation	0 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained	Quantity
Use	10.560 tonnes
Creation	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	Incidents out of the normal course of events	Significant Process Change
NA - 03	Cadmium (and its compounds)					No
67-56-1	Methanol					No
7664-93-9	Sulphuric acid					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
NA - 03	Cadmium (and its compounds)	Stack or Point Releases	O - Engineering Estimates		0.009 kg
NA - 19	Hexavalent chromium (and its compounds)	Stack or Point Releases	O - Engineering Estimates		0.029 kg
67-56-1	Methanol	Stack or Point Releases	O - Engineering Estimates		5.676 tonnes
7664-93-9	Sulphuric acid	Stack or Point Releases	O - Engineering Estimates		0.0393 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	O - Engineering Estimates		5.676 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Storage or Handling Releases	C - Mass Balance		4.883 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		10.559 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
NA - 03	Cadmium (and its compounds)	0.009 kg
NA - 19	Hexavalent chromium (and its compounds)	0.029 kg
67-56-1	Methanol	5.676 tonnes
7664-93-9	Sulphuric acid	0.0393 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	10.559 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	67-56-1	Methanol	5.676 tonnes

On-site Releases - Releases to water

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 03	Cadmium (and its compounds)	Direct Discharges	M3 - Source Testing		0.141 kg
NA - 19	Hexavalent chromium (and its compounds)	Direct Discharges	M3 - Source Testing		0.222 kg
67-56-1	Methanol	Direct Discharges	C - Mass Balance		4.88 tonnes

On-site Releases - Releases to water - Total

CAS RN	Substance Name	Total - Releases to Water
NA - 03	Cadmium (and its compounds)	0.141 kg
NA - 19	Hexavalent chromium (and its compounds)	0.222 kg
67-56-1	Methanol	4.88 tonnes

On-site Releases - Releases to water - Waterbody Breakdown List

CAS RN	Substance Name	Category	Water Body Name	Water Shed ID	Quantity
67-56-1	Methanol	Direct Discharges	Lake Ontario		4.88 tonnes
NA - 03	Cadmium (and its compounds)	Direct Discharges	Lake Ontario		0.141 kg
NA - 19	Hexavalent chromium (and its compounds)	Direct Discharges	Lake Ontario		0.222 kg

On-site Releases - Releases to water - Dioxins and Furans Breakdown List

Category	CAS RN	Substance Name	Water Body Name	Quantity
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On-site Releases - Total

CAS RN	Substance Name	Total releases
NA - 03	Cadmium (and its compounds)	0.150 kg
NA - 19	Hexavalent chromium (and its compounds)	0.251 kg
67-56-1	Methanol	10.556 tonnes
7664-93-9	Sulphuric acid	0.0393 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
NA - 03	Cadmium (and its compounds)	25	25	25	25
NA - 19	Hexavalent chromium (and its compounds)	25	25	25	25
67-56-1	Methanol	25	25	25	25
7664-93-9	Sulphuric acid	25	25	25	25

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)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

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)
67-56-1	Methanol	Changes in production levels	
7664-93-9	Sulphuric acid	No significant change (i.e. < 10%) or no change	
NA - 03	Cadmium (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 19	Hexavalent chromium (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels	

Disposals - Off-site Transfers (excluding Tailings and Waste Rock)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 03	Cadmium (and its compounds)	Chemical Treatment	M3 - Source Testing		2.075 kg
7664-93-9	Sulphuric acid	Chemical Treatment	C - Mass Balance		4.166 tonnes

Disposals - Off-site Transfers (excluding Tailings and Waste Rock) - Total

CAS RN	Substance Name	Total - Treatment Prior to Final Disposal
NA - 03	Cadmium (and its compounds)	2.075 kg
7664-93-9	Sulphuric acid	4.166 tonnes

Disposals - Off-site Transfers (excluding Tailings and Waste Rock) - By Facilities

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
7664-93-9	Sulphuric acid	Chemical Treatment	Stablex Canada Inc.	760, boul. Industriel, Blainville, QC, Canada	4.166 tonnes
NA - 03	Cadmium (and its compounds)	Chemical Treatment	Stablex Canada Inc.	760, boul. Industriel, Blainville, QC, Canada	2.075 kg

Disposals - Off-site Transfers (excluding Tailings and Waste Rock) - Dioxins and Furans Breakdown List By Facility

Category	CAS RN	Substance Name	Off-site Name	Quantity
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Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
NA - 03	Cadmium (and its compounds)	2.075 kg
7664-93-9	Sulphuric acid	4.166 tonnes

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid	Contaminated materials Pollution abatement residues	No significant change (i.e. < 10%) or no change	
NA - 03	Cadmium (and its compounds)	Pollution abatement residues	No significant change (i.e. < 10%) or no change	
NA - 19	Hexavalent chromium (and its compounds)		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
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid		No significant change (i.e. < 10%) or no change	
NA - 03	Cadmium (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 19	Hexavalent chromium (and its compounds)		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
NA - 03	Cadmium (and its compounds)	No	Enters the facility (Use)	100 kg	50 kg	2015	50	100

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 03	Cadmium (and its compounds)	No	Creation	0 kg	0 kg	2015	0	
NA - 03	Cadmium (and its compounds)	No	Contained	47.7 kg	47.76 kg	2015	-0.06	-0.13
67-56-1	Methanol	No	Enters the facility (Use)	10.56 tonnes	10.56 tonnes	2013	0.00	0
67-56-1	Methanol	No	Creation	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Contained	0 tonnes	0 tonnes	2013	0	
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	19.348 tonnes	23.623 tonnes	2015	-4.275	-18.10
7664-93-9	Sulphuric acid	No	Creation	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Contained	0 tonnes	0 tonnes	2015	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 03	Cadmium (and its compounds)	No reasons - quantities approximately the same	
67-56-1	Methanol	Increase in production levels	
7664-93-9	Sulphuric acid	Implementation of toxics reduction option(s)	
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
NA - 03	Cadmium (and its compounds)	No	Total Releases to Air	0.009 kg	0.009 kg	2015	0.000	0
NA - 03	Cadmium (and its compounds)	No	Total Releases to Water	0.141 kg	0.042 kg	2015	0.099	235.71
NA - 03	Cadmium (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2015	0	
NA - 03	Cadmium (and its compounds)	No	Total Releases to All Media	0 kg				
67-56-1	Methanol	No	Total Releases to Air	5.676 tonnes	5.676 tonnes	2013	0.000	0
67-56-1	Methanol	No	Total Releases to Water	4.88 tonnes	4.88 tonnes	2013	0.00	0
67-56-1	Methanol	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total Releases to All Media	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to Air	0.0393 tonnes	0.0393 tonnes	2015	0.0000	0
7664-93-9	Sulphuric acid	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	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
NA - 03	Cadmium (and its compounds)	No reasons - quantities approximately the same	
67-56-1	Methanol	Increase in production levels	
7664-93-9	Sulphuric acid	No reasons - quantities approximately the same	
NA - M16	Volatile Organic Compounds (VOCs)	No reasons - quantities approximately the same	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 03	Cadmium (and its compounds)	No	Total On-site Disposals	0 kg	0 kg	2015	0	
NA - 03	Cadmium (and its compounds)	No	Total Off-site Disposals	0 kg	0 kg	2015	0	
NA - 03	Cadmium (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	2.075 kg	2.188 kg	2015	-0.113	-5.16
NA - 03	Cadmium (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2015	0	
NA - 03	Cadmium (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7664-93-9	Sulphuric acid	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Off-site transfer for treatment Prior to Final Disposal	4.166 tonnes	4.222 tonnes	2015	-0.056	-1.33
7664-93-9	Sulphuric acid	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 03	Cadmium (and its compounds)	No reasons - quantities approximately the same	
7664-93-9	Sulphuric acid	No reasons - quantities approximately the same	

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?

Substances
Water conservation

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

Water conservation through automated open/close valves controlled by a PLC. Cycle time open/close to reduce water usage

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

Yes

Pollution Prevention Activities

Category	Activity	Name and description of the other activity
Equipment or Process Modifications	Modified or installed rinse systems	
Good Operating Practice or Training		
Inventory Management or Purchasing Techniques		
Materials or feedstock substitution		
On-site Re-use, Recycling, or Recovery		
Other Pollution Prevention Activities		
Product Design or Reformulation		
Spill or Leak Prevention Activities		

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 03	Cadmium (and its compounds)	Objectives of the plan is to intend to reduce the use of Cadmium through implementing new programs and practices
67-56-1	Methanol	Objectives in the plan is to intend to reduce the use of methanol through implementing new programs and practices
7664-93-9	Sulphuric acid	Objectives of the plan is to intend to reduce the use of sulfuric acid through implementing new programs and practices

Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 03	Cadmium (and its compounds)	32.68 kg	2	To offer customer alternative plating solutions which have similar properties as that of Cadmium. To train platers to inspect tanks for leaks. To improve operating practices through plater training during in process inspection via quality and equipment used to measure thickness (XRF)
67-56-1	Methanol	623.70 kg	1	To ensure all residual material is removed from drums prior to returning drums to the supplier
7664-93-9	Sulphuric acid	1816.09 kg	3	Treat acid copper and reuse solution, inspect tanks for leaks, prevent cross contamination in bright dips, follow first in and first out procedures, weekly bath analysis for bright nickels, ensure dragouts for bright nickels are used for replenishment, spill training, use spent sulfuric acid dips for effluent pH adjustments, look at alternative chemistry for tri acids, remove a plating line which contains sulfuric acid in some of the chemistries

Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
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CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 03	Cadmium (and its compounds)	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	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
NA - 03	Cadmium (and its compounds)	Modified design or composition	Modified process water control system to open/close water usage. Reduction in water consumption by 40%	Reduced water consumption Through PLC controlled inlet valve	No comparison	Reduced water consumption Through PLC controlled inlet valve
NA - 03	Cadmium (and its compounds)	Training related to toxics substance reduction	None	None	Was already complete	None
67-56-1	Methanol	Training related to toxics substance reduction	No steps taken for the year	No steps taken for the year	No steps taken for this year as the steps already taken in the previous years have resulted in substantial reductions	No steps taken for the year
7664-93-9	Sulphuric acid	Other	None taken	None taken	None	None taken
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	No new actions taken	No new actions taken	None	No new actions taken
7664-93-9	Sulphuric acid	Modified design or composition	None taken for this reporting year	No taken for this reporting year	None	No taken for this reporting year
7664-93-9	Sulphuric acid	Implemented inspection or monitoring program of potential spill or leak sources	None taken for the reporting year	None taken for the reporting year	None	None taken for the reporting year
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	No new actions taken	No new action taken	None	No new action taken

Progress on TRA Plan - Reductions due to Options Implemented - Equipment or process modifications

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
7664-93-9	Sulphuric acid	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7664-93-9	Sulphuric acid	Other	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 steps described:	No Amount
7664-93-9	Sulphuric acid	Other	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 steps described:	No Amount
7664-93-9	Sulphuric acid	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Reductions due to Options Implemented - Improved inventory management or purchasing techniques

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	The amount of reduction in release to water 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
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	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 steps described:	No Amount
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	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 steps described:	No Amount
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	The amount of reduction in the substance recycled off-site 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
NA - 03	Cadmium (and its compounds)	No		
67-56-1	Methanol	No		
7664-93-9	Sulphuric acid	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 03	Cadmium (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 03	Cadmium (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 03	Cadmium (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 03	Cadmium (and its compounds)	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.	
NA - 03	Cadmium (and its compounds)	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.	
NA - 03	Cadmium (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 03	Cadmium (and its compounds)	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.	
NA - 03	Cadmium (and its compounds)	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.	
NA - 03	Cadmium (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	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.	
67-56-1	Methanol	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.	
67-56-1	Methanol	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
67-56-1	Methanol	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.	
67-56-1	Methanol	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.	
67-56-1	Methanol	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	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.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
7664-93-9	Sulphuric acid	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.	
7664-93-9	Sulphuric acid	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
7664-93-9	Sulphuric acid	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.	
7664-93-9	Sulphuric acid	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.	
7664-93-9	Sulphuric acid	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
NA - 03	Cadmium (and its compounds)	No		
67-56-1	Methanol	No		
7664-93-9	Sulphuric acid	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

EMI RFI Shield Plating Inc.

Certifying Official (or authorized delegate)

Kaarle Ottonen

Report Submitted by

Kaarle Ottonen

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 19/05/2017, I, Kaarle Ottonen, 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

NA - 03

Cadmium (and its compounds)

67-56-1

Methanol

7664-93-9

Sulphuric acid

Exit Record Certification Statement

As of 19/05/2017, I Kaarle Ottonen, 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 EMIRFI SHIELD PLATING INC. and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN

Substance Name

NA - 19

Hexavalent chromium (and its

compounds)

Company Name

EMI RFI Shield Plating Inc.

Highest Ranking Employee

Kaarle Ottonen

Report Submitted by

Kaarle Ottonen

Website address

www.shieldplating.com

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
2016	19/05/2017	EMIRFI SHIELD PLATING INC.	Ontario	Scarborough	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.

Version: 3.11.3



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