

National Pollutant Release Inventory (NPRI) and Partners



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Report Preview

Report Details

Report Year	2017
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	31/05/2018 12:25 PM

Company and Facility Details

Company Name:	EMI RFI Shield Plating
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: 43.7257 Longitude: -79.2823 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, Company Coordinator, Highest Ranking Employee, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan, Public Contact
Name:	Kaarle Ottonen
Position:	Environmental Compliance Manager
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Email:

kaarle.ottonen@shieldplating.com

General Information

Number of employees:

40

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

Operating Schedule - Days of the Week:

Mon, Tue, Wed, Thu, Fri

Usual Number of Operating Hours per day:

10

Usual Daily Start Time (24h) (hh:mm):

07:30

Shutdown Periods:

From 2017-07-30 To 2017-08-07

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 03	Cadmium (and its compounds)	0.1970	N/A	1.9140	N/A	kg
NA - 04	Chromium (and its compounds)	N/A	N/A	0.0070	N/A	tonnes
67-56-1	Methanol	7.6560	N/A	N/A	N/A	tonnes
7664-93-9	Sulphuric acid	0.0393	N/A	5.7010	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	5.6760	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 - 04	Chromium (and its compounds)	No	No		No
67-56-1	Methanol	No	No		No
7664-93-9	Sulphuric acid	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	No	No		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 - 04	Chromium (and its compounds)	The substance did not meet the criteria to provide information to NPRI	The substance no longer meets the threshold	The use of the chromates both tri and Hex were below 45 kg
67-56-1	Methanol	The substance did not meet the criteria to provide information to NPRI	We have reduced the use of methanol	We have reduced the use by approximately 25% which new the usage was 7661 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

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 - 04	Chromium (and its compounds)	Yes	No	No
67-56-1	Methanol	Yes	No	No
7664-93-9	Sulphuric acid	Yes	Yes	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
NA - 03	Cadmium (and its compounds)	Yes	No	No
NA - 04	Chromium (and its compounds)	Yes	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 an article component	
NA - 04	Chromium (and its compounds)		As a formulation component	
67-56-1	Methanol			As a physical or chemical processing aid
7664-93-9	Sulphuric acid		As a formulation component	As a physical or chemical processing aid
NA - M16	Volatile Organic Compounds (VOCs)			

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 03	Cadmium (and its compounds)	Use	50 kg	No
NA - 03	Cadmium (and its compounds)	Creation	0 kg	Yes
NA - 03	Cadmium (and its compounds)	Contained in Product	47.8 kg	Yes
7664-93-9	Sulphuric acid	Use	16.870 tonnes	Yes
7664-93-9	Sulphuric acid	Creation	0 tonnes	No
7664-93-9	Sulphuric acid	Contained in Product	0 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Use	7.661 tonnes	Yes
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
67-56-1	Methanol	Use	7.661 tonnes
67-56-1	Methanol	Creation	0 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	7.661 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	Description of how an incident(s) affected quantifications	Significant Process Change
NA - 03	Cadmium (and its compounds)					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	M3 - Source Testing		0.009 kg
67-56-1	Methanol	Stack or Point Releases	O - Engineering Estimates		5.676 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	O - Engineering Estimates		5.676 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		5.676 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
67-56-1	Methanol	5.676 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	5.676 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		0.188 kg
67-56-1	Methanol	Direct Discharges	C - Mass Balance		1.98 tonnes

On-site Release - Releases to Water - Information on Concentration and Sampling

CAS RN	Substance Name	Category	Average annual concentration (ppm)	Sampling Detection Limit	Estimated Half Method	Method Detection Limit (ppm)	More than one method	Additional Information
NA - 03	Cadmium (and its compounds)	Direct Discharges	0.004	No samples above detection limit	No	0.004	False	
67-56-1	Methanol	Direct Discharges	0.0000	No information available on concentration	No	0	False	

On-site Releases - Releases to water - Total

CAS RN	Substance Name	Total - Releases to Water
NA - 03	Cadmium (and its compounds)	0.188 kg
67-56-1	Methanol	1.98 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		1.98 tonnes
NA - 03	Cadmium (and its compounds)	Direct Discharges	Lake Ontario		0.188 kg

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
7664-93-9	Sulphuric acid	Total Quantity Released	O - Engineering Estimates		0.0393 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
NA - 03	Cadmium (and its compounds)	0.197 kg
67-56-1	Methanol	7.656 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
67-56-1	Methanol	25	25	25	25
7664-93-9	Sulphuric acid	26.54	35.44	19.79	18.23

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	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
	(VOCs)												

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
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 - 04	Chromium (and its compounds)	Changes in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	No significant change (i.e. < 10%) or no change	

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		1.914 kg
NA - 04	Chromium (and its compounds)	Chemical Treatment	C - Mass Balance		0.007 tonnes
7664-93-9	Sulphuric acid	Chemical Treatment	C - Mass Balance		5.701 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)	1.914 kg
NA - 04	Chromium (and its compounds)	0.007 tonnes
7664-93-9	Sulphuric acid	5.701 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	5.701 tonnes
NA - 03	Cadmium (and its compounds)	Chemical Treatment	Stablex Canada Inc.	760, boul. Industriel, Blainville, QC, Canada	1.914 kg
NA - 04	Chromium (and its compounds)	Chemical Treatment	Stablex Canada Inc.	760, boul. Industriel, Blainville, QC, Canada	0.007 tonnes

Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
NA - 03	Cadmium (and its compounds)	1.914 kg
NA - 04	Chromium (and its compounds)	0.007 tonnes
7664-93-9	Sulphuric acid	5.701 tonnes

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid	Contaminated materials	Changes in on-site treatment	
NA - 03	Cadmium (and its compounds)	Contaminated materials	No significant change (i.e. < 10%) or no change	
NA - 04	Chromium (and its compounds)	Contaminated materials	Changes in production levels	

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 - 04	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)	50 kg	100 kg	2016	-50	-50.0
NA - 03	Cadmium (and its compounds)	No	Creation	0 kg	0 kg	2016	0	
NA - 03	Cadmium (and its compounds)	No	Contained in Product	47.8 kg	47.73 kg	2016	0.07	0.15

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-56-1	Methanol	Yes	Enters the facility (Use)	7.661 tonnes	10.56 tonnes	2016	-2.899	-27.45
67-56-1	Methanol	Yes	Creation	0 tonnes	0 tonnes	2016	0	
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	16.870 tonnes	19.348 tonnes	2016	-2.478	-12.81
7664-93-9	Sulphuric acid	No	Creation	0 tonnes	0 tonnes	2016	0	
7664-93-9	Sulphuric acid	No	Contained in Product	0 tonnes	0 tonnes	2016	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	
7664-93-9	Sulphuric acid	Implementation of actions outside of toxics reduction plan	
NA - M16	Volatile Organic Compounds (VOCs)	Implementation of actions outside of toxics reduction plan	

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	2016	0.000	0
NA - 03	Cadmium (and its compounds)	No	Total Releases to Water	0.188 kg	0.141 kg	2016	0.047	33.33
NA - 03	Cadmium (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2016	0	
NA - 03	Cadmium (and its compounds)	No	Total Releases to All Media	0 kg				
67-56-1	Methanol	Yes	Total Releases to Air	5.676 tonnes	5.676 tonnes	2016	0.000	0
7664-93-9	Sulphuric acid	No	Total Releases to Air	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to Water	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to Land	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to All Media	0.0393 tonnes	0.0393 tonnes	2014	0.0000	0

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	
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	2016	0	
NA - 03	Cadmium (and its compounds)	No	Total Off-site Disposals	0 kg	0 kg	2016	0	
NA - 03	Cadmium (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	1.914 kg	2.075 kg	2016	-0.161	-7.76
NA - 03	Cadmium (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2016	0	
NA - 03	Cadmium (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2016	0	
7664-93-9	Sulphuric acid	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
7664-93-9	Sulphuric acid	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
7664-93-9	Sulphuric acid	No	Total Off-site transfer for treatment Prior to Final Disposal	5.701 tonnes	5.701 tonnes	2016	0.000	0
7664-93-9	Sulphuric acid	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
7664-93-9	Sulphuric acid	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	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
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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 (provide the name of the primary Substances in the comments field below)

Please summarize your pollution prevention plan. If you selected "Substances", please specify the substances that were addressed in your plan (this information will be publicly available).

Copper, nickel, chromium, zinc

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
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
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 - Use 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)
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 - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 03	Cadmium (and its compounds)	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	Installed Zinc/Nickel bath to provide alternative options for cadmium plating	Alternative options provided to customers, end users define product to be used.	Alternative options given to end users for product updates to eventually less toxic substances	Alternative options given to end users for product updates to eventually use less toxic substances
NA - 03	Cadmium (and its compounds)	Training related to toxics substance reduction	Thickness applied to base material all employees are given greater control over operation using newer equipment	Better reporting and communication given to employees to reduce amount of toxic substance usage	In original plan to improve facility and equipment	In original plan to improve facility and equipment
7664-93-9	Sulphuric acid	Other	None	No summary	None	None
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	None	No summary	None	None
7664-93-9	Sulphuric acid	Modified design or composition	None	None	None	None
7664-93-9	Sulphuric acid	Implemented inspection or monitoring program of potential spill or	None	No summary	None	None

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
		leak sources				
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	None	No summary	None	None

CAS RN	Substance Name	Activity	Will the timelines in the current version of the plan will be met	Comments:
NA - 03	Cadmium (and its compounds)	Modified design or composition	Yes	
NA - 03	Cadmium (and its compounds)	Training related to toxics substance reduction	Yes	
7664-93-9	Sulphuric acid	Other	No	
7664-93-9	Sulphuric acid	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	No	
7664-93-9	Sulphuric acid	Modified design or composition	Yes	
7664-93-9	Sulphuric acid	Implemented inspection or monitoring program of potential spill or leak sources	No	
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	No	

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
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 land of the substance at the facility during the reporting period that resulted due to 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 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	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 03	Cadmium (and its compounds)	Training related to toxics substance reduction	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
NA - 03	Cadmium (and its compounds)	Training related to toxics substance reduction	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
NA - 03	Cadmium (and its compounds)	Training related to toxics substance reduction	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
NA - 03	Cadmium (and its compounds)	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
NA - 03	Cadmium (and its compounds)	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
NA - 03	Cadmium (and its compounds)	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
NA - 03	Cadmium (and its compounds)	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
NA - 03	Cadmium (and its compounds)	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
7664-93-9	Sulphuric acid	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	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		
7664-93-9	Sulphuric acid	Yes	Reuse to pH adjust Waste Water	Spent material is reused to pH adjust the waste water

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.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
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.	
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.	2.47 tonnes
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
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.	No Amount
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.	2.47 tonnes
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.	No Amount

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		
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

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 31/05/2018, 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)

7664-93-9

Sulphuric acid

Exit Record Certification Statement

As of 31/05/2018, 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
67-56-1	Methanol
NA - 04	Chromium (and its compounds)

Company Name
EMI RFI Shield Plating

Highest Ranking Employee
Kaarle Ottonen

Report Submitted by
Kaarle Ottonen

Website address

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2017	31/05/2018	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: 3.14.0



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