



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:	Ready to Submit
Modified Date/Time:	01/05/2018 12:14 PM

Company and Facility Details

Company Name:	Brimac Anodizing Ltd.
Business Number:	100648740
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 542 Kipling Avenue City, Province/Territory, Postal Code: Toronto Ontario M8Z5E3 Country: Canada
Facility Name:	BRIMAC ANODIZING (1985) LIMITED
NAICS Code:	332810
NPRI ID:	632
Physical Address:	Address Line 1: 542 Kipling Avenue City, Province/Territory, Postal Code: Toronto Ontario M8Z5E3 Country: Canada Latitude: 43.6128 Longitude: -79.5236 UTM Zone: 17 UTM Easting: 619116 UTM Northing: 4830041

Contacts Details

Contact Type	Technical Contact, Contractor Contact, Person who prepared the report
Name:	Wendy Nadan
Position:	Principal
Telephone:	5199404724
Email:	wendy@nadanconsulting.com
Independent contractor/consultant company name:	Nadan Consulting Ltd.
Contact Type	Certifying Official, Highest Ranking Employee
Name:	Jake Morgan
Position:	Operations Manager

Telephone:

4162554411

Email:

brimac@brimacanodizing.com

General Information

Number of employees:

22

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:

None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:

None of the above

Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):

Wood preservation using creosote: No

Is this the first time the facility is reporting to the NPRI (under current or past ownership):

No

Is the facility controlled by another Canadian company or companies:

No

Did the facility report under other environmental regulations or permits:

No

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):

No

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 17	Nitrate ion in solution at pH >= 6.0	N/A	N/A	N/A	3.6320	tonnes
7697-37-2	Nitric acid	0.1910	N/A	0.7050	N/A	tonnes
7664-93-9	Sulphuric acid	0.0320	N/A	2.3510	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 - 17	Nitrate ion in solution at pH >= 6.0	No	No		No
7697-37-2	Nitric acid	No	No		No
7664-93-9	Sulphuric acid	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 - 17	Nitrate ion in solution at pH >= 6.0	The substance did not meet the criteria to provide information to NPRI	creation/usage falls below threshold	purchasing data
7697-37-2	Nitric acid	The substance did not meet the criteria to provide information to NPRI	usage fell below threshold	purchasing data

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 - 17	Nitrate ion in solution at pH >= 6.0	No	No	No
7697-37-2	Nitric acid	Yes	No	No
7664-93-9	Sulphuric acid	Yes	No	No

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 - 17	Nitrate ion in solution at pH	Yes	No	No

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
	>= 6.0			
7697-37-2	Nitric acid	No	No	Yes
7664-93-9	Sulphuric acid	No	No	Yes

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 17	Nitrate ion in solution at pH >= 6.0	As a by-product		
7697-37-2	Nitric acid			As a physical or chemical processing aid
7664-93-9	Sulphuric acid			As a physical or chemical processing aid

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
7664-93-9	Sulphuric acid	Use	31.848 tonnes	Yes
7664-93-9	Sulphuric acid	Creation	0.000 tonnes	Yes
7664-93-9	Sulphuric acid	Contained in Product	0.000 tonnes	Yes

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
7664-93-9	Sulphuric acid					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
7697-37-2	Nitric acid	Stack or Point Releases	O - Engineering Estimates		0.191 tonnes
7664-93-9	Sulphuric acid	Stack or Point Releases	O - Engineering Estimates		0.032 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
7697-37-2	Nitric acid	0.191 tonnes
7664-93-9	Sulphuric acid	0.032 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
7697-37-2	Nitric acid	0.191 tonnes
7664-93-9	Sulphuric acid	0.032 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
7697-37-2	Nitric acid	25	25	25	25
7664-93-9	Sulphuric acid	25	25	25	25

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
7664-93-9	Sulphuric acid	Changes in production levels	
7697-37-2	Nitric acid	Other (specify in On-site Releases comment field)	estimates were likely over reported in 2016
NA - 17	Nitrate ion in solution at pH >= 6.0	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 - 17	Nitrate ion in solution at pH >= 6.0	Municipal Sewage Treatment Plant	C - Mass Balance		3.632 tonnes

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

CAS RN	Substance Name	Total - Treatment Prior to Final Disposal
NA - 17	Nitrate ion in solution at pH >= 6.0	3.632 tonnes

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

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 17	Nitrate ion in solution at pH >= 6.0	Municipal Sewage Treatment Plant	Metropolitan Toronto Humber Bay Water Treatment Plant	130 The Queensway, Toronto, ON, Canada	3.632 tonnes

Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
NA - 17	Nitrate ion in solution at pH >= 6.0	3.632 tonnes

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
7664-93-9	Sulphuric acid		Changes in production levels	
7697-37-2	Nitric acid		No significant change (i.e. < 10%) or no change	substance is not disposed but there is no option to state that
NA - 17	Nitrate ion in solution at pH >= 6.0	Pollution abatement residues	Changes in production levels	

Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
7697-37-2	Nitric acid	Recovery of Acids and Bases	O - Engineering Estimates		0.705 tonnes
7664-93-9	Sulphuric acid	Recovery of Acids and Bases	C - Mass Balance		2.351 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
7697-37-2	Nitric acid	0.705 tonnes
7664-93-9	Sulphuric acid	2.351 tonnes

Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
7664-93-9	Sulphuric acid	Recovery of Acids and Bases	Sodrox Chemicals Ltd.	RR #6, Guelph, ON, Canada	2.351 tonnes
7697-37-2	Nitric acid	Recovery of Acids and Bases	Sodrox Chemicals Ltd.	RR #6, Guelph, ON, Canada	0.705 tonnes
7697-37-2	Nitric acid	Recovery of Acids and Bases	Waste Services Inc.	3354 Navan Rd., Navan, ON, Canada	
7697-37-2	Nitric acid	Recovery of Acids and Bases	Metropolitan Toronto Humber Bay Water Treatment Plant	130 The Queensway, Toronto, ON, Canada	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
7664-93-9	Sulphuric acid	Production Residues	No significant change (i.e. < 10%) or no change	
7697-37-2	Nitric acid	Production Residues	No significant change (i.e. < 10%) or no change	
NA - 17	Nitrate ion in solution at pH >= 6.0		Changes in production levels	

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
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	31.848 tonnes	15.343 tonnes	2016	16.505	107.57
7664-93-9	Sulphuric acid	No	Creation	0.000 tonnes	0.000 tonnes	2016	0.000	
7664-93-9	Sulphuric acid	No	Contained in Product	0.000 tonnes	0.000 tonnes	2016	0.000	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7664-93-9	Sulphuric acid	Increase in production levels	

Comparison Report - On-site Releases

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 Releases to Air	0.032 tonnes	0.015 tonnes	2016	0.017	113.33
7664-93-9	Sulphuric acid	No	Total Releases to Water	0 tonnes	0 tonnes	2016	0	
7664-93-9	Sulphuric acid	No	Total Releases to Land	0 tonnes	0 tonnes	2016	0	
7664-93-9	Sulphuric acid	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	

Comparison Report - On-site Releases - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7664-93-9	Sulphuric acid	Increase in production levels	

Comparison Report - Transfers off-site for Recycling

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 off-site Transfers for Recycling	2.351 tonnes	2.067 tonnes	2016	0.284	13.74

Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
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

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).

toxics reduction plan was prepared for sulphuric acid. A plan was created in 2014 for nitric acid and nitrates

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
7664-93-9	Sulphuric acid	none

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
7664-93-9	Sulphuric acid	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
7664-93-9	Sulphuric acid	No quantity target	No timeline target	

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
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
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.	
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
7664-93-9	Sulphuric acid	No		

Empty

Version: 3.13.0

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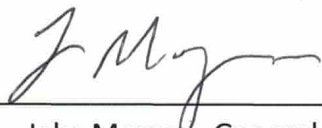
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As of June 1, 2018, I, Jake Morgan, certify that I have read the toxic substance reduction plan for sulphuric acid, nitric acid and nitrates and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.



Jake Morgan, General Manager

05/29/18

Date