



# National Pollutant Release Inventory (NPRI) and



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## Report Preview

### Report Details

Report Year	2013
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	27/05/2014 12:59 PM

### Company and Facility Details

Company Name:	Kemira Water Solutions Canada Inc.
Business Number:	101532623
Mailing Address:	Delivery Mode: PostOfficeBox PO Box: 1540 Address Line 1: City, Province/Territory, Postal Code: Brantford Ontario N3T5V6 Country: Canada
Facility Name:	Brantford Operations
NAICS Code:	325189
NPRI ID:	3040
Physical Address:	Address Line 1: 626 Oak Park Road City, Province/Territory, Postal Code: Brantford Ontario N3T5L8 Country: Canada Latitude: 43.18020 Longitude: -80.34240 UTM Zone: 17 UTM Easting: 553443 UTM Northing: 4781036

### Parent Companies

Company Name:	Kemira Oyj
Business Number:	1098230
Mailing Address:	Delivery Mode: PostOfficeBox PO Box: 330 Address Line 1: 3 porkkalankatu City, Province/Territory, Postal Code: Helsinki None Country: FINLAND

### Permits

Number or Permit Number:	8676-4K8JEL
Government Department, Agency, or Program Name:	Ontario Certificate of Approval Industrial Sewage
Number or Permit Number:	ON0165801

Government Department, Agency, or Program Name:

Ontario Generator Registration Report Reg. 347

Number or Permit Number:

2367-6ZXKAV

Government Department, Agency, or Program Name:

Ontario MOE Comprehensive Certificate of Approval Air

## 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:

Michael Snider

Position:

Plant Manager

Telephone:

5197597570

Fax:

5197598962

Email:

mike.snider@kemira.com

Mailing Address:

Delivery Mode: PostOfficeBox  
PO Box: 1540  
Address Line 1:  
City, Province/Territory, Postal Code: Brantford Ontario N3T5V6  
Country: Canada

## General Information

Number of employees:

13

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:

Yes

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):

No

Operating Schedule - Days of the Week:

Mon, Tue, Wed, Thu, Fri

Usual Number of Operating Hours per day:

24

## Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
7647-01-0	Hydrochloric acid	0.2500	N/A	N/A	15.0000	tonnes
7664-93-9	Sulphuric acid	0.0000	N/A	N/A	5.0000	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
7647-01-0	Hydrochloric acid	Yes	Yes		No
7664-93-9	Sulphuric acid	Yes	Yes		No

## 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
7647-01-0	Hydrochloric acid	Yes	Yes	No
7664-93-9	Sulphuric acid	Yes	Yes	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
7647-01-0	Hydrochloric 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
7647-01-0	Hydrochloric acid		As a reactant	
7664-93-9	Sulphuric acid		As a reactant	

### TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
7647-01-0	Hydrochloric acid	Use	5150 tonnes	Yes
7647-01-0	Hydrochloric acid	Creation	0 tonnes	Yes
7647-01-0	Hydrochloric acid	Contained	0 tonnes	Yes
7664-93-9	Sulphuric acid	Use	3717 tonnes	Yes
7664-93-9	Sulphuric acid	Creation	0 tonnes	Yes
7664-93-9	Sulphuric acid	Contained	0 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	Incidents out of the normal course of events	Significant Process Change
7647-01-0	Hydrochloric acid					No
7664-93-9	Sulphuric acid					Yes

### Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
7647-01-0	Hydrochloric acid	Total Quantity Released	M2 - Predictive Emission Monitoring		0.25 tonnes
7664-93-9	Sulphuric acid	Total Quantity Released	C - Mass Balance		0 tonnes

### On-site Releases - Total

### 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)
7647-01-0	Hydrochloric acid	No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid	No significant change (i.e. < 10%) or no change	

### Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
7647-01-0	Hydrochloric acid		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid		No significant change (i.e. < 10%) or no change	

### Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
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CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
7647-01-0	Hydrochloric acid	Other	C - Mass Balance		15 tonnes
7664-93-9	Sulphuric acid	Other	C - Mass Balance		5 tonnes

### Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
7647-01-0	Hydrochloric acid	15 tonnes
7664-93-9	Sulphuric acid	5 tonnes

### Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
7647-01-0	Hydrochloric acid	Other	Kingswood Industrial Services Corp	115 Glenwood Drive, Brantford, ON, Canada	15 tonnes
7664-93-9	Sulphuric acid	Other	Kingswood Industrial Services Corp	115 Glenwood Drive, Brantford, ON, Canada	5 tonnes

### Recycling - Off-site Transfers for Recycling - Dioxins and Furans Breakdown List By Facility

Category	CAS RN	Substance Name	Off-site Name	Quantity
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### Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
7647-01-0	Hydrochloric acid	Other	Other (specify in recycling comments field)	Improvement to process to reduce amount of product in co-product gypsum that is recycled.
7664-93-9	Sulphuric acid	Other	Other (specify in recycling comments field)	Improvement in process to reduce amount of material in coproduct gypsum going to recycling

### 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
7647-01-0	Hydrochloric acid	No	Enters the facility (Use)	5150 tonnes	5580 tonnes	2012	-430	-7.71
7647-01-0	Hydrochloric acid	No	Creation	0 tonnes	0 tonnes	2012	0	
7647-01-0	Hydrochloric acid	No	Contained	0 tonnes	0 tonnes	2012	0	
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	3717 tonnes	3643 tonnes	2012	74	2.03
7664-93-9	Sulphuric acid	No	Creation	0 tonnes	0 tonnes	2012	0	
7664-93-9	Sulphuric acid	No	Contained	0 tonnes	0 tonnes	2012	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7647-01-0	Hydrochloric acid	Decrease in production levels	
7664-93-9	Sulphuric acid	Other	Replacement of 93% with 75% conc. sulphuric acid increases amount used in facility. Actual 100% sulphuric acid amount used decreased due to less production in 2013 vs 2012.

### Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7647-01-0	Hydrochloric acid	No	Total Releases to Air	0 tonnes				
7647-01-0	Hydrochloric acid	No	Total Releases to Water	0 tonnes				
7647-01-0	Hydrochloric acid	No	Total Releases to Land	0 tonnes				
7647-01-0	Hydrochloric acid	No	Total Releases to All Media	0.25 tonnes	0.25 tonnes	2012	0.00	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				

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 All Media	0 tonnes	0 tonnes	2012	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7647-01-0	Hydrochloric acid	No reasons - quantities approximately the same	
7664-93-9	Sulphuric acid	No reasons - quantities approximately the same	

### 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
7647-01-0	Hydrochloric acid	No	Total off-site Transfers for Recycling	15 tonnes	80.89 tonnes	2012	-65.89	-81.46
7664-93-9	Sulphuric acid	No	Total off-site Transfers for Recycling	5 tonnes	26.6 tonnes	2012	-21.6	-81.20

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7647-01-0	Hydrochloric acid	Implementation of actions outside of toxics reduction plan	
7664-93-9	Sulphuric acid	Implementation of actions outside of toxics reduction plan	

### Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was required by a P2 Planning Notice published under the Canadian Environmental Protection Act, 1999? Specify name in comments field below.  
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?

Yes

c) Does the plan address substances, energy conservation, or water conservation?

Substances

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

Ministry of the Environment, Ontario

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	Other (specify in comments field)	Improved process control to minimize material left in co-product gysum that is recycled.
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	Implemented inspection or monitoring program of potential spill or leak sources	

### Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
		This Plan describes the use of each of these chemicals, and the current measures taken to reduce risks associated with them. Kemira Water Solutions Canada Inc. is part of an international company, specializing in development of drinking water treatment chemicals, specifically

CAS RN	Substance Name	Objectives
7647-01-0	Hydrochloric acid	coagulants. The Brantford location produces Polyaluminum Chloride Sulphate (CAS: 39290-78-3) and Aluminum Chlorohydrate (CAS: 12042-91-0) used in water treatment for municipal and industrial applications, shipping over 21 100 tonnes and 1900 tonnes in 2011 respectively. In order to maintain our high standard of environmental practice, we strive to create minimal pollution, and go to great lengths to assure that risks of air, water, and land contamination are minimal. More sophisticated analysis on our stack emissions was completed in 2012, which allowed us to continue monitoring the only source of release of these chemicals under normal operation.
7664-93-9	Sulphuric acid	This Plan describes the use of each of these chemicals, and the current measures taken to reduce risks associated with them. Kemira Water Solutions Canada Inc. is part of an international company, specializing in development of drinking water treatment chemicals, specifically coagulants. The Brantford location produces Polyaluminum Chloride Sulphate (CAS: 39290-78-3) and Aluminum Chlorohydrate (CAS: 12042-91-0) used in water treatment for municipal and industrial applications, shipping over 21 100 tonnes and 1900 tonnes in 2011 respectively. In order to maintain our high standard of environmental practice, we strive to create minimal pollution, and go to great lengths to assure that risks of air, water, and land contamination are minimal. More sophisticated analysis on our stack emissions was completed in 2012, which allowed us to continue monitoring the only source of release of these chemicals under normal operation.

## Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
7647-01-0	Hydrochloric acid	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	No quantity target	No timeline target	

## Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
7647-01-0	Hydrochloric acid	No quantity target	No timeline 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
7647-01-0	Hydrochloric acid	Yes	Improved process control to remove substance from co product gypsum which then would improve efficiency of use of product in process.	Improved process control to increase efficiency of use of material in production.
7664-93-9	Sulphuric acid	Yes	Reduced amount of material in co-production gypsum that is sent to recycling by improvement in process control.	Improved process control to increase efficiency of use of material in production.

## Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
7647-01-0	Hydrochloric acid	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	No Amount
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	65 tonnes
7664-93-9	Sulphuric acid	The amount of reduction in <b>use</b> 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 <b>creation</b> 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 <b>contained in product</b> 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 <b>release to air</b> 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 <b>release to water</b> 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 <b>release to land</b> 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 <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	No Amount

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
7664-93-9	Sulphuric acid	The amount of reduction in the substance <b>disposed off-site</b> (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 <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	22 tonnes

## 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
7647-01-0	Hydrochloric acid	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

Kemira Water Solutions Canada Inc.

Certifying Official (or authorized delegate)

Michael Snider

Report Submitted by

Michael Snider

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 27/05/2014, I, Michael Snider, 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

7647-01-0

Hydrochloric acid

7664-93-9

Sulphuric acid

Company Name

Kemira Water Solutions Canada Inc.

Highest Ranking Employee

Michael Snider

Report Submitted by

Michael Snider

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
2013	27/05/2014	Brantford Operations	Ontario	Brantford	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: 3.9.0



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