# Plan Summary Preview

## Company Details

Company Legal Name:

Kemira Water Solutions Canada Inc.

Company Address:

626 Oak Park Road, Brantford (Ontario)

## Report Details

Facility:

Brantford Operations

Facility Address:

626 Oak Park Road, Brantford (Ontario)

Update Comments:

## Activities

### Select the Facility Contacts

#### Contacts

Public Contact:*

Michael Snider

Highest Ranking Employee:

Michael Snider

Person responsible for Toxic Substance Reduction Plan preparation:

Karen Whiteman

## Organization Validation

### Company and Parent Company Information

#### Company Details

| | |
|---|---|
| Company Legal Name:* | Kemira Water Solutions Canada Inc. |
| Company Trade Name:* | Kemira Water Solutions Canada Inc. |

| | |
|---|---|
| Business Number:* | 101532623 |

## Mailing Address

| | |
|---|---|
| Delivery Mode: | Post Office Box |
| PO Box or Rural Route Number: | 1540 |
| Address Line 1: | |
| City: | Brantford |
| Province/Territory: | Ontario |
| Postal Code: | N3T5V6 |

## Physical Address

| | |
|---|---|
| Address Line 1: | 626 Oak Park Road |
| City: | Brantford |
| Province/Territory: | Ontario |
| Postal Code: | N3T5L8 |
| Additional Information: | |
| Land Survey Description: | |
| National Topographical Description: | |

# Parent Companies

## Kemira Oyj

| | |
|---|---|
| Company Legal Name:* | Kemira Oyj |
| Percentage owned:* | 100.00 |
| Business Number:* | 1098230 |

### Mailing Address

| | |
|---|---|
| Delivery Mode: | |
| PO Box or Rural Route Number: | |
| Address Line 1: | 3405 Marie-Victorin Blvd |

| | |
|---|---|
| City: | Varennes |
| Province/Territory: | Quebec |
| Postal Code: | J3X 1T6 |

Physical Address

| | |
|---|---|
| Address Line 1: | |
| City: | |
| Province/Territory: | |
| Postal Code: | |
| Additional Information: | |
| Land Survey Description: | |
| National Topographical Description: | |

## Facility Validation

### Facility Information

| | |
|---|---|
| Facility:* | Brantford Operations |
| NAICS Id:* | 325189 |
| NPRI Id:* | 0000003040 |
| ON Reg 127/01 Id: | |

### Mailing Address

| | |
|---|---|
| Delivery Mode: | Post Office Box |
| PO Box or Rural Route Number: | 1540 |
| Address Line 1: | |
| City: | Brantford |
| Province/Territory: | Ontario |
| Postal Code: | N3T5V6 |

### Physical Address

| | |
|---|---|
| Address Line 1: | 626 Oak Park Road |
| City: | Brantford |
| Province/Territory: | Ontario |
| Postal Code: | N3T5L8 |
| UTM Zone: | 17 |
| UTM Easting: | 553443 |
| UTM Northing: | 4781036 |
| Latitude: | 43.1802 |
| Longitude: | -80.3424 |
| Additional Information: | |
| Land Survey Description: | |
| National Topographical Description: | |

## Contact Validation

### Contacts

#### Public Contact:

| | |
|---|---|
| First Name:* | Michael |
| Last Name:* | Snider |
| Position:* | Plant Manager |
| Telephone:* | 5197597570 |
| Ext: | 223 |
| Fax: | 5197598962 |
| Email:* | mike.snider@kemira.com |

#### Mailing Address

| | |
|---|---|
| Delivery Mode: | Post Office Box |
| PO Box or Rural Route Number: | 1540 |
| Address Line 1: | |
| City: | Brantford |
| Province/Territory: | Ontario |
| Postal Code: | N3T5V6 |

## Highest Ranking Employee:

| | |
|---|---|
| First Name:* | Michael |
| Last Name:* | Snider |
| Position:* | Plant Manager |
| Telephone:* | 5197597570 |
| Ext: | 223 |
| Fax: | 5197598962 |
| Email:* | mike.snider@kemira.com |

## Mailing Address

| | |
|---|---|
| Delivery Mode: | Post Office Box |
| PO Box or Rural Route Number: | 1540 |
| Address Line 1: | |
| City: | Brantford |
| Province/Territory: | Ontario |
| Postal Code: | N3T5V6 |

## Person responsible for the Toxic Substance Reduction Plan preparation:

| | |
|---|---|
| First Name:* | Karen |
| Last Name:* | Whiteman |

| | |
|---|---|
| Position:* | IMS and Project Specialist |
| Telephone:* | 5197597570 |
| Ext: | 248 |
| Fax: | 5197598962 |
| Email:* | Karen.Whiteman@kemira.com |

### Mailing Address

| | |
|---|---|
| Delivery Mode: | Post Office Box |
| PO Box or Rural Route Number: | 1540 |
| Address Line 1: | |
| City: | Brantford |
| Province/Territory: | Ontario |
| Postal Code: | N3T 5V6 |

## Employees

### Employees

Number of Full-time Employees:*

16

## Substances

### 7647-01-0, Hydrochloric acid

7647-01-0, Hydrochloric acid

### Substances Section Data

#### Statement of Intent

##### Use

Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?:*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility:**

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility:**

The Brantford location of Kemira uses Hydrochloric Acid (HCl) and Sulfuric Acid (SA) for production of Polyaluminum Chloride Sulphate (PAC) and Aluminum Chlorohydrate (ACH). Neither HCl nor SA are created on site. We do not intend to reduce the use of either HCl or SA during this 5 year Plan period due to unavailability of significant opportunities which are both technically feasible and financially viable. Alternatively, we monitor our release of the substances, and assure that any air, water, and land contamination are dealt with in a manner which has minimal environmental impact. Rational for each specific category will be discussed in this plan.

### Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?:*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility:**

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility:**

N/A: Hydrochloric Acid is not created at Kemira, Brantford.

## Objectives, Targets and Description

### Objectives

Objectives in plan:*

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.

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility?*

| | | | Quantity | Unit |
|---|---|---|---|---|
| ☒ | No quantity target | or | | |

What is the targeted timeframe for this reduction?*

☒ No timeline target or [ ] years

Description of targets:

[ ]

## Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility?*

| | | Quantity | Unit |
|---|---|---|---|
| ☒ | No quantity target or | | |

What is the targeted timeframe for this reduction?*

☒ No timeline target or [ ] years

Description of targets:

[ ]

## Reasons for Use

Why is the toxic substance used at the facility?:*

As a reactant

Summarize why the toxic substance is used at the facility:**

Hydrochloric Acid is a raw material used as a reactant in the creation of Polyaluminum Chloride and Aluminium Chlorohydrate.

## Reasons for Creation

Why is the toxic substance created at the facility?:*

This substance is not created at the facility

Summarize why the toxic substance is created at the facility:**

[ ]

# Toxic Reduction Options for Implementation

## Description of the toxic reduction option(s) to be implemented:

Is there a statement that no option will be implemented?:*

Yes

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or

reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option.
Explanation of the reasons why no option will be implemented:**

As reviewed in this plan, there are no technically/financially feasible options we could utilize in order to further reduce toxic materials. We do not plan on completing any changes to reduce the amount of HCl or SA onsite, nor do we plan to make any changes to production methods. Alternatively, we plan to continue to monitor our release of the substances, to assure that any air, water, and land contamination are dealt with in a manner which has minimal environmental impact.

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for why the listed options were chosen for implementation:

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan:

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX):*

TSRP0057

License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format TSRPXXXX):*

TSRP0057

What version of the plan is this summary based on?:*

New Plan

## 7664-93-9, Sulphuric acid

7664-93-9, Sulphuric acid

### Substances Section Data

#### Statement of Intent

##### Use

Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?:*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility:**

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility:**

The Brantford location of Kemira uses Hydrochloric Acid (HCl) and Sulfuric Acid (SA) for production of Polyaluminum Chloride Sulphate (PAC) and Aluminum Chlorohydrate (ACH). Neither HCl nor SA are created on site. We do not intend to reduce the use of either HCl or SA during this 5 year Plan period due to unavailability of significant opportunities which are both technically feasible and financially viable. Alternatively, we monitor our release of the substances, and assure that any air, water, and land contamination are dealt with in a manner which has minimal environmental impact. Rational for each specific category will be discussed in this plan.

### Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?:*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility:**

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility:**

N/A: Sulfuric Acid is not created at Kemira Brantford.

## Objectives, Targets and Description

### Objectives

Objectives in plan:*

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.

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility?*

| Quantity | Unit |
|---|---|

☒ No quantity target or

What is the targeted timeframe for this reduction?*

☒ No timeline target or years

Description of targets:

## Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility?*

| | Quantity | Unit |
|---|---|---|
| ☒ No quantity target or | | |

What is the targeted timeframe for this reduction?*

☒ No timeline target or years

Description of targets:

## Reasons for Use

Why is the toxic substance used at the facility?:*

As a reactant

Summarize why the toxic substance is used at the facility:**

Sulfuric Acid is a raw material used as a reactant in the production of Polyaluminum Chloride.

## Reasons for Creation

Why is the toxic substance created at the facility?:*

This substance is not created at the facility

Summarize why the toxic substance is created at the facility:**

## Toxic Reduction Options for Implementation

Description of the toxic reduction option(s) to be implemented:

Is there a statement that no option will be implemented?:*

Yes

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option.
Explanation of the reasons why no option will be implemented:**

As reviewed in this plan, there are no technically/financially feasible options we could utilize in order to further reduce toxic materials. We do not plan on completing any changes to reduce the amount of HCl or SA onsite, nor do we plan to make any changes to production methods. Alternatively, we plan to continue to monitor our release of the substances, to assure that any air, water, and land contamination are dealt with in a manner which has minimal environmental impact.

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for why the listed options were chosen for implementation:

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan:

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX):*

TSRP0057

License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format TSRPXXXX):*

TSRP0057

What version of the plan is this summary based on?:*

New Plan

## 6.0 Plan Certifications for Hydrochloric Acid and Sulfuric Acid

As of 2012-12-14, I, Mike Snider, certify that I have read the toxic substance reduction plan for the Toxics substances referred to below, I 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 the Act.

(Hydrochloric Acid, Sulfuric Acid)

Mike Snider
Plant Manager, Kemira Brantford (Highest Ranking Employee)

2012-12-14
Date

As of 2012-12-17, I, Clifton Brown certify that I am familiar with the processes at Kemira Brantford that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv, and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 14, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under the Act.

(Hydrochloric Acid, Sulfuric Acid)

Clifton Brown (TSRP0057)
Toxic Substance Reduction Planner

2012-12-17
Date