



## DEXTRAN PRODUCTS LIMITED

(A DIVISION OF POLYDEX PHARMACEUTICALS LIMITED)

421 - 423 Comstock Road  
Scarborough, Ontario, Canada  
M1L 2H5

Tel. (416) 755-2231

Fax (416) 755-0334

As of April 6<sup>th</sup>, 2016, I, George Usher, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

Isopropyl Alcohol

Hydrochloric Acid

Cyanides, Ionic

Methanol

George G. Usher.

Technical Director, Dextran Products Ltd.



Canada.gc.ca (<http://www.canada.gc.ca/home.html>)

Services (<http://www.servicecanada.gc.ca/eng/home.shtml>)

Departments (<http://www.canada.gc.ca/aboutgov-ausujetgouv/depts/menu-eng.html>)

Français

# Single Window (/)

Home (<https://ec.ss.ec.gc.ca/auth/en/Services>)

Submission Management ▾

Help ▾

My Profile:George Usher ▾

Logout (/V003/Logout\_Deconnexion)

Ec.gc.ca

(<http://ec.gc.ca/default.asp?lang=En&n=FD9B0E51-1>)

SWIM (<https://ec.ss.ec.gc.ca/auth/en/Services>) 2014 (/) Dextran Products Ltd. (/) DEXTRAN PRODUCTS LIMITED (/)  
Report Preview

\* indicates a required field, \*\* indicates a conditionally required field

## Report Preview

### Company Details

Name

Dextran Products Ltd.

Address

421 Comstock Road, Scarborough (Ontario)

### Report Details

Report Status

Submitted

2014

Report Type

Inventory

Facility Name

DEXTRAN PRODUCTS LIMITED

Facility Address

421 Comstock Road, Toronto (Ontario)

Update Comments

## Activity Details

### Applicable Programs

Please select all that apply.

#### Environment Canada Programs



**NPRI** - National Pollutant Release Inventory

#### Partnering Programs



**ON MOE TRA** - Ontario Ministry of the Environment for the Toxic Reductions Act



**ON MOE Reg. 127/01** - Ontario Ministry of the Environment for the Airborne Contaminant Discharge Monitoring and Reporting Regulation



**NERM** - Chemistry Industry Association of Canada for the National Emission Reduction Masterplan survey



**NFPRER** - National Framework for Petroleum Refinery Emission Reductions

## Contacts

Select the appropriate person from the drop-down menu for each contact.

### Facility Contacts

Select the appropriate person from the drop-down menu for each contact.

Technical Contact: \*

George Usher

Certifying Official (or authorized delegate): \*

George Usher

Highest Ranking Employee: \*

George Usher

Person who prepared the report: \*

Sabbir Mogra

Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted)

Company Coordinator (optional)

Public Contact (optional)

George Usher

Contractor Contact (optional)

If you are an independent contractor or consultant, please enter your company name in the field below

## Employees and Activities

### Employees

Number of Employees \*

21

### Activities

If your facility was engaged in any of the following activities, check the relevant box(es), otherwise click "None of the Above". For the second "Activities" list, if you select one of these activities then you must report dioxins, furans and hexachlorobenzene.

**Activities for Which the 20,000-Hour Employee Threshold Does Not Apply: (check all that apply) \***

None of the above

**Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene: (check all that apply) \***

None of the above

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

Did the following activity take place at the facility?

Wood preservation using creosote: \*

No

## General Facility Information

### NPRI

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? \*

No

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

Yes

If 'Yes' to reporting for one or more Part 4 substances:

Was the facility shut down for more than one week during the year? \*\*

No

### Operating Schedule - Days of the Week \*\*

Mon  
Tue  
Wed  
Thu  
Fri  
Sat  
Sun



### Operating Schedule - Hours \*\*

Usual Number of

Operating Hours per day  
Usual Daily Start Time  
(24h) (hh:mm)

24

06:00

Shutdown Periods \*\*

To report a shutdown period, click the "+" sign to the right side of the screen.  
*Empty*

General Comments for Facility

Comments

Verify Facility Information

Company Information

Company Details

Company Legal Name

Dextran Products Ltd.

Business Number

885141861

Mailing Address

Delivery Mode

General Delivery

PO Box

Rural Route Number

Address Line 1

421 Comstock Road

City \*

Province/Territory \*\*

Postal Code: \*\*

Country \*

## Parent Companies

### Polydex Chemicals Ltd.

Parent Company Name

Business Number

DUNS Number

Percentage owned

## Mailing Address

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City \*

Province/Territory \*\*



Ontario

Postal Code: \*\*  
M1L2H5

Country \*  
Canada

Facility Information

Facility \*  
DEXTRAN PRODUCTS LIMITED

NAICS Code \*  
325410

NPRI ID \*  
577 (Assigned by Environment Canada)

Facility Physical Address

Address Line 1  
421 Comstock Road

City  
Toronto

Province/Territory  
Ontario

Postal Code  
M1L2H5

Country  
Canada

Additional Information

Land Survey Description

National Topographical Description

## Geographical Address

Latitude \*\*

43.72310

Longitude \*\*

-79.27750

UTM Zone \*\*

17

UTM Easting \*\*

638741

UTM Northing \*\*

4842560

## Facility Contacts

### Contact Types

#### Technical Contact

First Name: \*

George

Last Name: \*

Usher

Position: \*

Technical Director

Telephone: \*

4167552231

Ext

Fax

4167550334

Email: \*

sm-dextran@rogers.com

Mailing Address

Delivery Mode

General Delivery

PO Box

Rural Route Number

Address Line 1

City \*

Toronto

Province/Territory \*\*

Ontario

Postal Code: \*\*

M1L2H5

Country \*

Canada

Certifying Official

First Name: \*

George

Last Name: \*

Usher

Position: \*

Technical Director

Telephone: \*

4167552231

Ext

Fax

4167550334

Email: \*

sm-dextran@rogers.com

## Mailing Address

Delivery Mode

General Delivery

PO Box

Rural Route Number

Address Line 1

City \*

Toronto

Province/Territory \*\*

Ontario

Postal Code: \*\*

M1L2H5

Country \*

Canada

## Highest Ranking Employee

First Name: \*

George

Last Name: \*

Usher

Position: \*

Technical Director

Telephone: \*

4167552231

Ext

Fax

4167550334

Email: \*

sm-dextran@rogers.com

Mailing Address

Delivery Mode

General Delivery

PO Box

Rural Route Number

Address Line 1

City \*

Toronto

Province/Territory \*\*

Ontario

Postal Code: \*\*

M1L2H5

Country \*

Canada

Public Contact

First Name: \*

George

Last Name: \*

Usher

Position: \*

Technical Director

Telephone: \*

4167552231

Ext

Fax

Email: \*

**Mailing Address**

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City \*

Province/Territory \*\*

Postal Code: \*\*

Country \*

**Person who prepared the report**

First Name: \*

Last Name: \*

Position: \*

Telephone: \*

4167552231

Ext

Fax

4167550334

Email: \*

sm-dextran@rogers.com

## Mailing Address

Delivery Mode

General Delivery

PO Box

Rural Route Number

Address Line 1

City \*

Toronto

Province/Territory \*\*

Ontario

Postal Code: \*\*

M1L2H5

Country \*

Canada

## Pollution Prevention

### Pollution Prevention Plans

Does the facility have a documented pollution prevention plan? \*

Yes

If '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

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

The company has scrubbers for air pollution control.

## Pollution Prevention Activities

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

No

Selecting "Yes" will initiate the reporting of the specific pollution prevention activities that were completed in the current reporting year on the following screen.

## Substance Details

67-56-1, Methanol

67-56-1, Methanol

## Substance Reporting Status

### Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

No

Would you like to create an exit record for this ON MOE TRA substance? \*



Comments

## General Information about the Substance

### Releases and Transfers of the Substance

#### Releases and Transfers of the Substance

Was the substance released on-site? \*

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

☐

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

#### Disposals and Off-site Transfers for Recycling

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? \*

#### Nature of Activities \*

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

##### Manufacture the Substance

##### Process the Substance

##### Otherwise Use of the Substance

## TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

### Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

39.00

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

### Creation

The amount of substance that is created

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

### Contained in Product

The amount of substance contained in product

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

### Change in Method of Quantification



There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes \*\*

Select the reason for change: \*\*

Describe how the change impact tracking and quantification of the substance \*\*

### Incidents out of the normal course of events

☐

There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

### Significant Process Change

☐

There has been a significant process change at the facility during the previous calendar year.

### On-site Releases

Click "**Edit**" to enter your reportable values.

In order to calculate totals, you must click the "**Validate**" button.

### Enter the values for releases to air for the substance

#### Releases to Air

Category

Basis Of Estimate

Quantity (Tonnes)

Stack or Point Releases

M3 - Source Testing

0.270

Storage or Handling Releases

E2 - Published Emission Factors
---------------------------------

1.36
------

Fugitive Releases
-------------------

O - Engineering Estimates
---------------------------

0.027
-------

Spills
--------

NA - Not Applicable
---------------------

Other Non-point Releases
--------------------------

NA - Not Applicable
---------------------

Total - Releases to Air
-------------------------

1.657
-------

Enter the values for releases to water bodies

### Releases to Water Bodies

Category

Basis Of Estimate

Quantity (Tonnes)

Direct Discharges
-------------------

NA - Not Applicable
---------------------

Spills
--------

NA - Not Applicable
---------------------

Leaks
-------

NA - Not Applicable
---------------------

Total - Releases to Water Bodies
----------------------------------

Enter the values for releases to land (surface and underground)

Releases to Land (the nature of "Other" releases must be specified in the Comments)

Category  
Basis Of Estimate  
Quantity (Tonnes)

Spills

NA - Not Applicable

Leaks

NA - Not Applicable

Other

NA - Not Applicable

Total - Releases to Land

Total Quantity Released

1.657

## Breakdown of Annual Releases



Distribute Equally

### Quarterly Breakdown \*

Jan - Mar %  
Apr - Jun %  
Jul - Sep %  
Oct - Dec %

25

25

Total %

### Reasons for Changes in Quantities Released from Previous Year

**Select the applicable reason or reasons \***

Comments ? (On-Site Releases) \*\*

### Disposals

#### Reasons Why Substance Was Disposed

**Select one or more reasons**

#### On-site Disposal (excluding Tailings and Waste Rock)

Click "**Edit**" to enter your reportable values.In order to calculate totals, you must click the "**Validate**" button.

#### On-site Disposal

Category

Basis Of Estimate

Quantity (Tonnes)

NA - Not Applicable

Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

Category  
Basis Of Estimate  
Quantity (Tonnes)

Landfill

NA - Not Applicable

Land Treatment

NA - Not Applicable

Underground Injection

NA - Not Applicable

Storage

NA - Not Applicable

Total - Off-site Disposals

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

Category  
Basis Of Estimate  
Quantity (Tonnes)

Physical Treatment
--------------------

C - Mass Balance
------------------

23.0
------

Chemical Treatment
--------------------

NA - Not Applicable
---------------------

Biological Treatment
----------------------

NA - Not Applicable
---------------------

Incineration / Thermal
------------------------

NA - Not Applicable
---------------------

Municipal Sewage Treatment Plant
----------------------------------

NA - Not Applicable
---------------------

Total - Treatment Prior to Final Disposal
---

23.0
------

Total Quantity Disposed (All Media)
-------------------------------------

23.0
------

## Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "**Save and Return**".

Assign Disposals / Transfers to Off-site Facilities

### Basis of Estimate for Off-sites

Enter breakdown values for

Physical Treatment
--------------------



## Basis of Estimate

## Quantity (Tonnes)

## Off-site

Off-Site Name	Quantity (Tonnes)	Address
---------------	-------------------	---------

Fielding Chemicals	23.0	839 Central Parkway W., Mississauga, ON, Canada
--------------------	------	---

## Total Assigned (must equal total reported)

## Reasons for Changes in Quantities Disposed from Previous Year

## Select the applicable reason or reasons.

## Comments? (Disposals)

## Recycling

## Reasons Why Substance Was Recycled

## Select one or more reasons. \*

## Off-site Transfers for Recycling

Click "**Edit**" to enter your reportable values.In order to calculate totals, you must click the "**Validate**" button.

## Off-site Transfers

Category

Basis Of Estimate

Quantity (Tonnes)

## Recovery of Solvents

C - Mass Balance

23

## Recovery of Organic Substances (not solvents)

NA - Not Applicable

## Recovery of Metals and Metal Compounds

NA - Not Applicable

## Recovery of Inorganic Materials (not metals)

NA - Not Applicable

## Recovery of Acids and Bases

NA - Not Applicable

## Recovery of Catalysts

NA - Not Applicable

## Recovery of Pollution Abatement Residues

NA - Not Applicable

## Refining of Re-use of Used Oil

NA - Not Applicable

## Other

NA - Not Applicable

## Total Quantity Recycled

## Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "**Save and Return**".

## Assign Disposals / Transfers to Off-site Facilities

## Basis of Estimate for Off-sites

Enter breakdown values for

Basis of Estimate

Quantity (Tonnes)

## Off-site

Off-Site Name	Quantity (Tonnes)	Address
---------------	-------------------	---------

Fielding Chemicals	23	839 Central Parkway W., Mississauga, ON, Canada
--------------------	----	---

Total Assigned (must equal total reported)

## Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons \*

Comments? (Recycling)

## Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

39.00

33.13

2013

5.87

17.72

Creation

Creation

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

0

0

2013

0

Contained in Product

Contained in Product

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

0
0
2013
0

### Reasons for Change

#### Reasons for Change

##### Reason(s) for Change

Other

(please specify)

Batch production activity for better yield of the final product required more quantity of the chemical

(please specify): Batch production activity for better yield of the final product required more quantity of the chemical

### Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Total Releases to Air

#### Total Releases to Air

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

1.657
-------

1.657
-------

2013
------

0.000
-------

0
---

## Total Releases to Water

### Total Releases to Water

**Quantity (Tonnes)**

**Last Reported Quantity (Tonnes) \***

**Reporting Period of Last Reported Quantity \***

**Change**

**% Change**

0
---

0
---

2013
------

0
---

## Total Releases to Land

### Total Releases to Land

**Quantity (Tonnes)**

**Last Reported Quantity (Tonnes) \***

**Reporting Period of Last Reported Quantity \***

**Change**

**% Change**

0
---

0
---

2013
------

0
---

## Reasons for Change

### Reasons for Change

**Reason(s) for Change**

Increase in production levels, Other

(please specify)

Batch production activity for better yield of the final product required more quantity of the chemical

(please specify): Batch production activity for better yield of the final product required more quantity of the chemical

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

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Total On-site Disposals

#### Total On-site Disposals

**Quantity (Tonnes)****Last Reported Quantity (Tonnes) \*****Reporting Period of Last Reported Quantity \*****Change****% Change**

0

0

2013

0

### Total Off-site Disposals

#### Total Off-site Disposals

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

0
0
2013
0

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

23.0
19.20
2013
3.80
19.79

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

0
0



2013

0

## Total Off-site Disposal of Tailings and Waste Rock

### Total Off-site Disposal of Tailings and Waste Rock

**Quantity (Tonnes)**

**Last Reported Quantity (Tonnes) \***

**Reporting Period of Last Reported Quantity \***

**Change**

**% Change**

0

0

2013

0

## Reasons for Change

### Reasons for Change

**Reason(s) for Change**

Other

(please specify)

Batch production activity for better yield of the final product required more quantity of the chemical

(please specify): Batch production activity for better yield of the final product required more quantity of the chemical

## Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

## Total off-site Transfers for Recycling

## Total off-site Transfers for Recycling

Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

% Change

23

19.20

2013

3.80

19.79

## Reasons for Change

## Reasons for Change

Reason(s) for Change

Other

(please specify)

Batch production activity for better yield of the final product required more quantity of the chemical

(please specify): Batch production activity for better yield of the final product required more quantity of the chemical

## 67-63-0, Isopropyl alcohol

67-63-0, Isopropyl alcohol

## Substance Reporting Status

## Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09

under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

No

Would you like to create an exit record for this ON MOE TRA substance? \*

No

Comments

## General Information about the Substance

### Releases and Transfers of the Substance

#### Releases and Transfers of the Substance

Was the substance released on-site? \*

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

☐

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

#### Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? \*

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? \*

No

Was the substance transferred off-site for recycling? \*

Yes

#### Nature of Activities \*

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

**Manufacture the Substance****Process the Substance****Otherwise Use of the Substance****TRA Quantifications**

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

**Enters the facility (Use)**

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

**Creation**

The amount of substance that is created

Quantity (Tonnes) \*\*

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

**Contained in Product**

The amount of substance contained in product

Quantity (Tonnes) \*\*

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

### Change in Method of Quantification



There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes \*\*

Select the reason for change: \*\*

Describe how the change impact tracking and quantification of the substance \*\*

### Incidents out of the normal course of events



There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

### Significant Process Change



There has been a significant process change at the facility during the previous calendar year.

### On-site Releases

Click "**Edit**" to enter your reportable values.

In order to calculate totals, you must click the "**Validate**" button.

Enter the values for releases to air for the substance

#### Releases to Air

Category

Basis Of Estimate

Quantity (Tonnes)

## Stack or Point Releases

M3 - Source Testing

9.92

## Storage or Handling Releases

E2 - Published Emission Factors

4.70

## Fugitive Releases

M3 - Source Testing

1.50

## Spills

NA - Not Applicable

## Other Non-point Releases

NA - Not Applicable

## Total - Releases to Air

16.12

Enter the values for releases to water bodies

## Releases to Water Bodies

Category

Basis Of Estimate

Quantity (Tonnes)

## Direct Discharges

NA - Not Applicable

## Spills

NA - Not Applicable

Leaks

NA - Not Applicable

Total - Releases to Water Bodies

Enter the values for releases to land (surface and underground)

Releases to Land (the nature of "Other" releases must be specified in the Comments)

Category

Basis Of Estimate

Quantity (Tonnes)

Spills

NA - Not Applicable

Leaks

NA - Not Applicable

Other

NA - Not Applicable

Total - Releases to Land

Total Quantity Released

16.12

Breakdown of Annual Releases



Distribute Equally

Quarterly Breakdown \*

Jan - Mar %

Apr - Jun %

Jul - Sep %

Oct - Dec %

25

25

25

25

Total %

100

### Reasons for Changes in Quantities Released from Previous Year

**Select the applicable reason or reasons \***

Changes in production levels

Comments ? (On-Site Releases) \*\*

Increase in production levels

### Disposals

#### Reasons Why Substance Was Disposed

**Select one or more reasons**

Pollution abatement residues

#### On-site Disposal (excluding Tailings and Waste Rock)

Click "**Edit**" to enter your reportable values.In order to calculate totals, you must click the "**Validate**" button.

#### On-site Disposal

Category

Basis Of Estimate

Quantity (Tonnes)

Landfill

NA - Not Applicable

Land Treatment



NA - Not Applicable

Underground Injection

NA - Not Applicable

Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

Category  
Basis Of Estimate  
Quantity (Tonnes)

Landfill

NA - Not Applicable

Land Treatment

NA - Not Applicable

Underground Injection

NA - Not Applicable

Storage

NA - Not Applicable

Total - Off-site Disposals

Off-site Transfers (excluding Tailings and Waste Rock)

## Off-site Transfers for Treatment Prior to Final Disposal

Category

Basis Of Estimate

Quantity (Tonnes)

Physical Treatment

C - Mass Balance

10.83

Chemical Treatment

NA - Not Applicable

Biological Treatment

NA - Not Applicable

Incineration / Thermal

NA - Not Applicable

Municipal Sewage Treatment Plant

NA - Not Applicable

Total - Treatment Prior to Final Disposal

10.83

Total Quantity Disposed (All Media)

10.83

## Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click **"Save and Return"**.

## Assign Disposals / Transfers to Off-site Facilities

## Basis of Estimate for Off-sites

Enter breakdown values for

Physical Treatment

Basis of Estimate

C - Mass Balance

Quantity (Tonnes)

10.83

## Off-site

Off-Site Name	Quantity (Tonnes)	Address
---------------	-------------------	---------

Fielding Chemicals	10.83	839 Central Parkway W., Mississauga, ON, Canada
--------------------	-------	---

Total Assigned (must equal total reported)

10.83

## Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

No significant change (i.e. &lt; 10%) or no change

Comments? (Disposals)

## Recycling

## Reasons Why Substance Was Recycled

Select one or more reasons. \*

Production Residues

## Off-site Transfers for Recycling

Click "**Edit**" to enter your reportable values.In order to calculate totals, you must click the "**Validate**" button.

## Off-site Transfers

Category

Basis Of Estimate

Quantity (Tonnes)

## Energy Recovery

NA - Not Applicable

## Recovery of Solvents

C - Mass Balance

10.83

## Recovery of Organic Substances (not solvents)

NA - Not Applicable

## Recovery of Metals and Metal Compounds

NA - Not Applicable

## Recovery of Inorganic Materials (not metals)

NA - Not Applicable

## Recovery of Acids and Bases

NA - Not Applicable

## Recovery of Catalysts

NA - Not Applicable

## Recovery of Pollution Abatement Residues

NA - Not Applicable

## Refining of Re-use of Used Oil

NA - Not Applicable

Total Quantity Recycled

### Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "**Save and Return**".

Assign Disposals / Transfers to Off-site Facilities

#### Basis of Estimate for Off-sites

Enter breakdown values for

Basis of Estimate

Quantity (Tonnes)

#### Off-site

Off-Site Name	Quantity (Tonnes)	Address
---------------	-------------------	---------

Fielding Chemicals	10.83	839 Central Parkway W., Mississauga, ON, Canada
--------------------	-------	---

Total Assigned (must equal total reported)

### Reasons for Changes in Quantities Recycled from Previous Year

**Select the applicable reason or reasons \***

Comments? (Recycling)

## Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

**Quantity (Tonnes)**

**Last Reported Quantity (Tonnes) \***

**Reporting Period of Last Reported Quantity \***

**Change**

**% Change**

376

219.35

2013

156.65

71.42

Creation

Creation

**Quantity (Tonnes)**

**Last Reported Quantity (Tonnes) \***

**Reporting Period of Last Reported Quantity \***

**Change**

**% Change**

0

0

2013

0

## Contained in Product

## Contained in Product

Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

% Change

0

0

2013

0

## Reasons for Change

## Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

## Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

## Total Releases to Air

## Total Releases to Air

Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

**% Change**

16.12
16.12
2013
0.00
0

**Total Releases to Water****Total Releases to Water****Quantity (Tonnes)****Last Reported Quantity (Tonnes) \*****Reporting Period of Last Reported Quantity \*****Change****% Change**

0
0
2013
0

**Total Releases to Land****Total Releases to Land****Quantity (Tonnes)****Last Reported Quantity (Tonnes) \*****Reporting Period of Last Reported Quantity \*****Change****% Change**

0
0
2013
0



Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(please specify)

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

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

Quantity (Tonnes)  
Last Reported Quantity (Tonnes) \*  
Reporting Period of Last Reported Quantity \*  
Change  
% Change

0
0
2013
0

Total Off-site Disposals

Total Off-site Disposals

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

0
0
2013
0

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

10.83
10.81
2013
0.02
0.19

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

**Quantity (Tonnes)**  
**Last Reported Quantity (Tonnes) \***  
**Reporting Period of Last Reported Quantity \***  
**Change**  
**% Change**

0
0

2013
0

### Total Off-site Disposal of Tailings and Waste Rock

#### Total Off-site Disposal of Tailings and Waste Rock

**Quantity (Tonnes)**

**Last Reported Quantity (Tonnes) \***

**Reporting Period of Last Reported Quantity \***

**Change**

**% Change**

0
0
2013
0

### Reasons for Change

#### Reasons for Change

**Reason(s) for Change**

No reasons - quantities approximately the same

(please specify)

--

### Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

#### Total off-site Transfers for Recycling

## Total off-site Transfers for Recycling

**Quantity (Tonnes)****Last Reported Quantity (Tonnes) \*****Reporting Period of Last Reported Quantity \*****Change****% Change**

10.83

10.81

2013

0.02

0.19

## Reasons for Change

## Reasons for Change

**Reason(s) for Change**

No reasons - quantities approximately the same

(please specify)

## 7647-01-0, Hydrochloric acid

7647-01-0, Hydrochloric acid

## Substance Reporting Status

## Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

Would you like to create an exit record for this ON MOE TRA substance? \*

Comments

## General Information about the Substance

### Releases and Transfers of the Substance

#### Releases and Transfers of the Substance

Was the substance released on-site? \*

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

☐

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

### Disposals and Off-site Transfers for Recycling

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? \*

### Nature of Activities \*

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

#### Manufacture the Substance

#### Process the Substance

**Otherwise Use of the Substance**

As a manufacturing aid

**TRA Quantifications**

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

**Enters the facility (Use)**

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

63.19

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

**Creation**

The amount of substance that is created

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

**Contained in Product**

The amount of substance contained in product

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

**Change in Method of Quantification**



There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes \*\*

Company uses lesser quantity of the material due to better work practices training.

Select the reason for change: \*\*

A result of review of the current version of the toxic substance reduction plan for the substance under section 7 of the Act

Describe how the change impact tracking and quantification of the substance \*\*

Company uses lesser quantity of the material due to better work practices training.

### Incidents out of the normal course of events



There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

### Significant Process Change



There has been a significant process change at the facility during the previous calendar year.

### On-site Releases

Click "**Edit**" to enter your reportable values.

In order to calculate totals, you must click the "**Validate**" button.

### Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons \*

Other (specify in On-site Releases comment field)

Comments ? (On-Site Releases) \*\*

It is not released.

### Disposals

### Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Comments? (Disposals)

## Recycling

### Reasons for Changes in Quantities Recycled from Previous Year

**Select the applicable reason or reasons \***

Comments? (Recycling)

## Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Enters the facility (Use)

#### Enters the facility (Use)

**Quantity (Tonnes)****Last Reported Quantity (Tonnes) \*****Reporting Period of Last Reported Quantity \*****Change****% Change**

## Creation



Creation

Quantity (Tonnes)  
Last Reported Quantity (Tonnes) \*  
Reporting Period of Last Reported Quantity \*  
Change  
% Change

0
0
2013
0

Contained in Product

Contained in Product

Quantity (Tonnes)  
Last Reported Quantity (Tonnes) \*  
Reporting Period of Last Reported Quantity \*  
Change  
% Change

0
0
2013
0

Reasons for Change

Reasons for Change

Reason(s) for Change

Other
-------

(please specify)

Company uses lesser quantity of the material due to better work practices training.
---

(please specify): Company uses lesser quantity of the material due to better work practices training.

## NA - 07, Cyanides (ionic)

NA - 07, Cyanides (ionic)

### Substance Reporting Status

#### Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

No

Would you like to create an exit record for this ON MOE TRA substance? \*

No

Comments

### General Information about the Substance

#### Releases and Transfers of the Substance

##### Releases and Transfers of the Substance

Was the substance released on-site? \*

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below



The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

#### Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? \*

No

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? \*

No

Was the substance transferred off-site for recycling? \*

No

### Nature of Activities \*

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

#### Manufacture the Substance

For on-site use/processing

#### Process the Substance

As a reactant

#### Otherwise Use of the Substance

As a physical or chemical processing aid

### TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

#### Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

4.2

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

#### Creation

The amount of substance that is created

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

### Contained in Product

The amount of substance contained in product

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

### Change in Method of Quantification



There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes \*\*

Select the reason for change: \*\*

Describe how the change impact tracking and quantification of the substance \*\*

### Incidents out of the normal course of events



There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

### Significant Process Change

☐

There has been a significant process change at the facility during the previous calendar year.

## On-site Releases

Click **"Edit"** to enter your reportable values.

In order to calculate totals, you must click the **"Validate"** button.

## Total Quantity Released (All Media)

### Releases to All Media

Category

Basis Of Estimate

Quantity (Tonnes)

Total Quantity Released

M3 - Source Testing

0.1

## Breakdown of Annual Releases

☐

Distribute Equally

### Quarterly Breakdown \*

Jan - Mar %

Apr - Jun %

Jul - Sep %

Oct - Dec %

25

25

25

25

Total %

100

## Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons \*

Pollution prevention activities

Comments ? (On-Site Releases) \*\*

Company uses lesser quantity of the material due to better work practices training.

## Disposals

### Reasons for Changes in Quantities Disposed from Previous Year

**Select the applicable reason or reasons.**

Pollution prevention activities

Comments? (Disposals)

Company uses lesser quantity of the material due to better work practices training.

## Recycling

### Reasons for Changes in Quantities Recycled from Previous Year

**Select the applicable reason or reasons \***

Pollution prevention activities

Comments? (Recycling)

Company uses lesser quantity of the material due to better work practices training.

## Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Enters the facility (Use)

#### Enters the facility (Use)

**Quantity (Tonnes)**

**Last Reported Quantity (Tonnes) \***

**Reporting Period of Last Reported Quantity \***

**Change**

**% Change**

4.2

5.2

2013
-1.0
-19.23

Creation

Creation

Quantity (Tonnes)  
Last Reported Quantity (Tonnes) \*  
Reporting Period of Last Reported Quantity \*  
Change  
% Change

0
0
2013
0

Contained in Product

Contained in Product

Quantity (Tonnes)  
Last Reported Quantity (Tonnes) \*  
Reporting Period of Last Reported Quantity \*  
Change  
% Change

0
0
2013
0

Reasons for Change

## Reasons for Change

### Reason(s) for Change

Other

(please specify)

Company uses lesser quantity of the material due to better work practices training.

(please specify): Company uses lesser quantity of the material due to better work practices training.

## Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

## Total Quantity Released (All Media)

### Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

% Change

0.1

0.42

2013

-0.32

-76.19

## Reasons for Change

### Reasons for Change

#### Reason(s) for Change

Other

(please specify)

Company uses lesser quantity of the material due to better work practices training.



(please specify): Company uses lesser quantity of the material due to better work practices training.

## NA - M16, Volatile Organic Compounds (VOCs)

NA - M16, Volatile Organic Compounds (VOCs)

### Substance Reporting Status

#### Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

No

Would you like to create VOC exit record(s) for this ON MOE TRA substance? \*

No

Comments

### General Information about the Substance

#### Releases and Transfers of the Substance

##### Releases and Transfers of the Substance



Select the check box if 1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air

### TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

415

#### Volatile Organic Compound (VOC) Breakdown

##### Details

Enter breakdown values for

Enters the facility (Use)

Total Speciated VOCs

415

##### VOC Substance list \*

CAS Number

Substance Name

Quantity (tonnes)

67-56-1

Methanol

39

67-63-0

Isopropyl alcohol

376

Total VOCs Reported

415

Total Speciated VOCs

415

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

##### Creation

The amount of substance that is created

Quantity (Tonnes) \*\*

0

## Volatile Organic Compound (VOC) Breakdown

## Details

Enter breakdown values for

Creation

Total Speciated VOCs

0

## VOC Substance list \*

CAS Number

Substance Name

Quantity (tonnes)

67-56-1

Methanol

0

67-63-0

Isopropyl alcohol

0

Total VOCs Reported

0

Total Speciated VOCs

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

## Change in Method of Quantification



There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes \*\*

Select the reason for change: \*\*

Describe how the change impact tracking and quantification of the substance \*\*

### Incidents out of the normal course of events



There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

### Significant Process Change



There has been a significant process change at the facility during the previous calendar year.

### On-site Releases

Click "**Edit**" to enter your reportable values.

In order to calculate totals, you must click the "**Validate**" button.

Enter the values for releases to air for the substance

#### Releases to Air

Category

Basis Of Estimate

Quantity (Tonnes)

Stack or Point Releases

M3 - Source Testing

10.19

Storage or Handling Releases

E2 - Published Emission Factors

6.06

## Fugitive Releases

M3 - Source Testing

1.53

## Spills

NA - Not Applicable

## Other Non-point Releases

NA - Not Applicable

## Total - Releases to Air

17.78

## Volatile Organic Compound (VOC) Breakdown

Enter the quantity (Tonnes) of volatile organic compounds (VOCs) in the column below, then click **"Save and Return"**. If there are no values for certain VOC species, you may leave those quantity fields blank.

## Volatile Organic Compound (VOC) Breakdown

## Details

Enter breakdown values for

Other Sources - Speciated VOCs

Quantity (Tonnes)

17.78

Total VOCs Reported

17.78

Total Speciated VOCs

17.777

## VOC Substance list \*

CAS Number

Substance Name

Quantity (tonnes)

67-56-1

Methanol

1.657

67-63-0

Isopropyl alcohol

16.12

Total VOCs Reported

17.78

Total Speciated VOCs

17.777

Enter the values for releases to air for Part 5 VOCs

### Releases from Other Sources - Speciated VOCs

Click "**Edit**" to enter release values for speciated VOCs that are from all other categories above **including** stacks <50m. To enter speciated VOC releases from stacks ≥50m, click "**Edit**" beside "Stack or Point Releases" in the table above.

Category

Basis Of Estimate

Quantity (Tonnes)

Other Sources - Speciated VOCs

NA - Not Applicable

17.78

### Breakdown of Annual Releases



Distribute Equally

### Monthly Releases

January %

February %

March %

April %

8.33

8.33

8.34

8.33

May %

June %

July %

August %

8.33

8.34

8.33

8.33

September %

October %

November %

December %

8.34

8.33

8.33

8.34

Total %

100.00

### Reasons for Changes in Quantities Released from Previous Year

**Select the applicable reason or reasons \***

Changes in production levels, Other (specify in On-site Releases comment field)

**Comments ? (On-Site Releases) \*\***

Batch production activity for better yield of the final product required more quantity of the chemical. Higher number of batches for Dextran production required higher quantity of the material.

### Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

### Breakdown Substances

CAS RN: 67-56-1, Substance Name: Methanol

Substance Name

Methanol

Quantity (Tonnes)

39

Last Reported Quantity (Tonnes) \*

33.13

Reporting Period of Last Reported Quantity \*

2013

Change

5.87

% Change

17.72

CAS RN: 67-63-0, Substance Name: Isopropyl alcohol

Substance Name

Isopropyl alcohol

Quantity (Tonnes)

376

Last Reported Quantity (Tonnes) \*

219.35

Reporting Period of Last Reported Quantity \*

2013

Change



% Change

## Creation

## Breakdown Substances

CAS RN: 67-56-1, Substance Name: Methanol

Substance Name

Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

% Change

CAS RN: 67-63-0, Substance Name: Isopropyl alcohol

Substance Name

Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

% Change

## Reasons for Change

### Reasons for Change

#### Reason(s) for Change

(please specify)

(please specify): Batch production activity for better yield of the final product required more quantity of the chemical. Higher number of batches for Dextran production required higher quantity of the material.

## Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values.

If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

## Total Releases to Air

### Breakdown Substances

CAS RN: 67-56-1, Substance Name: Methanol

Substance Name

Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

% Change

CAS RN: 67-63-0, Substance Name: Isopropyl alcohol

Substance Name

Quantity (Tonnes)

Last Reported Quantity (Tonnes) \*

Reporting Period of Last Reported Quantity \*

Change

% Change

## Reasons for Change

### Reasons for Change

**Reason(s) for Change**

(please specify)

(please specify): TeBatch production activity for better yield of the final product required more quantity of the chemical. Higher number of batches for Dextran production required higher quantity of the material.

## Post Plan Substance Details

## 67-56-1, Methanol

67-56-1, Methanol

### Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

#### Objectives

Objectives in plan: \*

More accurate measurement of Methanol during addition.

#### Use Targets

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

**No quantity target**

**Quantity  
Unit**

or

1200

kg

What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**

or

5

Description of Target

Changes will require product being put on stability to show customers there is no deliterious effect on the product

#### Creation Targets

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

**No quantity target**

Quantity  
Unit



or

What is the targeted timeframe for this reduction? \*

**No timeline target**

years



or

Description of targets

Product is not created on site

## Options

### Toxic Reduction Options Implemented

#### Equipment or process modifications

#### Improved application techniques

Activity

Improved application techniques

Describe the steps that were taken in the reporting period to implement the toxic reduction option: \*

Batch production activity for better yield of the final product required more quantity of the chemical.

Provide a public summary of the description of the steps: \*

Batch production activity for better yield of the final product required more quantity of the chemical.

Provide a comparison of the steps that were described in the plan for implementation with the

actual steps taken during the reporting period: \*

Batch production activity for better yield of the final product required more quantity of the chemical.

Provide a public summary of the comparison of the steps: \*

Batch production activity for better yield of the final product required more quantity of the chemical.

## Reductions due to Options Implemented

### Select All

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

Will the timelines in the current version of the plan will be met. \*

Comments

Batch production activity for better yield of the final product required more quantity of the chemical.

## Actions

### Additional Actions

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: \*\*

### Reductions due to additional actions taken \*\*

#### Select All

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.



No Amount

tonnes

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

tonnes

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

tonnes

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

tonnes

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



tonnes

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

tonnes

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

tonnes

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.



No Amount

tonnes

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

tonnes

## Amendments

### Amendments

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 \*\*

## 67-63-0, Isopropyl alcohol

67-63-0, Isopropyl alcohol

### Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

#### Objectives

Objectives in plan: \*

A new production method for Dextran will be investigated. This will require personnel time for research and development. Costs cannot be accurately estimated at this time as we are unsure of the research involved and the possible progress. Based on current knowledge our best estimate is one full time employee for about one year or perhaps \$75,000. An opening for this position has been posted and resumes are being collected. The outcome is not guaranteed. The most immediate option is the production of Iron Dextran 10% by a different process eliminating the use of IPA. The most immediate option is the production of Iron Dextran 20% by a different process eliminating the use of IPA.

#### Use Targets

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

No quantity target

Quantity  
Unit

or

25

tonnes

What is the targeted timeframe for this reduction? \*

No timeline target

years

or

Description of Target

## Creation Targets

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

**No quantity target****Quantity  
Unit**

or

  

What is the targeted timeframe for this reduction? \*

**No timeline target****years**

or

Description of targets

## Options

### Toxic Reduction Options Implemented

Product design or reformulation

Modified design or composition

Activity

Describe the steps that were taken in the reporting period to implement the toxic reduction

option: \*

Higher number of batches for Dextran production required higher quantity of the material.

Provide a public summary of the description of the steps: \*

Higher number of batches for Dextran production required higher quantity of the material.

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: \*

Higher number of batches for Dextran production required higher quantity of the material.

Provide a public summary of the comparison of the steps: \*

Higher number of batches for Dextran production required higher quantity of the material.

## Reductions due to Options Implemented

### Select All

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

Will the timelines in the current version of the plan will be met. \*

No

Comments

Higher number of batches for Dextran production required higher quantity of the material.

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? \*

No

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: \*\*

Reductions due to additional actions taken \*\*

**Select All**

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

☐

No Amount

tonnes

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

tonnes

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

tonnes

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

tonnes

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  
tonnes

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  
tonnes

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  
tonnes

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.

☐  
No Amount  
tonnes

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  
tonnes

## Amendments

### Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? \*

  
No

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

7647-01-0, Hydrochloric acid

### Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

#### Objectives

Objectives in plan: \*

We plan to reformulate on process and investigate alternate equipment

#### Use Targets

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

No quantity target

Quantity  
Unit

or

129.86

kg

What is the targeted timeframe for this reduction? \*

No timeline target

years

or

5

Description of Target

Some reductions will be implemented immediately, others will require purchase and installation



of new equipment

## Creation Targets

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

**No quantity target**

**Quantity  
Unit**



or


What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**



or

--

Description of targets

--

## Options

### Toxic Reduction Options Implemented

Materials or feedstock substitution

Other

Activity

Other

Describe the steps that were taken in the reporting period to implement the toxic reduction option: \*

Company uses lesser quantity of the material due to better work practices training.

Provide a public summary of the description of the steps: \*

Company uses lesser quantity of the material due to better work practices training.

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: \*

Company uses lesser quantity of the material due to better work practices training.

Provide a public summary of the comparison of the steps: \*

Company uses lesser quantity of the material due to better work practices training.

## Reductions due to Options Implemented

### Select All

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

8

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

Will the timelines in the current version of the plan will be met. \*

Comments

## Actions

### Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? \*

No

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: \*\*

### Reductions due to additional actions taken \*\*

#### Select All

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.



No Amount

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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.

No Amount

tonnes

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

tonnes

## Amendments

### Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? \*

No

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 - 07, Cyanides (ionic)

NA - 07, Cyanides (ionic)

### Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

#### Objectives

Objectives in plan: \*

Improved inventory management of purchasing techniques should reduce use.

#### Use Targets

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

**No quantity target**

**Quantity  
Unit**

or

180

kg

What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**

or

5

Description of Target

It may take some time to have material packed in smaller containers

## Creation Targets

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

**No quantity target**

**Quantity  
Unit**



or


What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**



or

--

Description of targets

--

## Options

### Toxic Reduction Options Implemented

Improved inventory management or purchasing techniques

Instituted improved purchasing procedures

Activity

Instituted improved purchasing procedures
---

Describe the steps that were taken in the reporting period to implement the toxic reduction option: \*

Company uses lesser quantity of the material due to better work practices training.
---

Provide a public summary of the description of the steps: \*

Company uses lesser quantity of the material due to better work practices training.
---

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: \*

Company uses lesser quantity of the material due to better work practices training.

Provide a public summary of the comparison of the steps: \*

Company uses lesser quantity of the material due to better work practices training.

## Reductions due to Options Implemented

### Select All

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

1

tonnes

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

tonnes

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

tonnes

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

tonnes

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



tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

Will the timelines in the current version of the plan will be met. \*

Comments

## Actions

### Additional Actions

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: \*\*

Reductions due to additional actions taken \*\*

**Select All**

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

☐

No Amount

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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

tonnes

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.



No Amount

tonnes

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

tonnes

## Amendments

### Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? \*

No

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 \*\*

Version: 3.8.0

Terms and Conditions (<http://www.ec.gc.ca/default.asp?lang=En&xml=5830C36B-1773-4E3E-AF8C-B21F54633E0A>) | Transparency  
(<http://www.ec.gc.ca/default.asp?lang=En&n=390AF41B-1>)

**About us**

(<http://www.ec.gc.ca/default.asp?lang=En&n=BD3CE17D>  
1)

**News**

(<http://www.ec.gc.ca/default.asp?lang=En&n=976258C6>  
1)

**Contact us**

(<http://www.ec.gc.ca/default.asp?lang=en&n=29E6BF9F-1>  
1)

**Stay connected**

(<http://www.ec.gc.ca/pollution/default.asp?lang=En&n=62DA6A41>  
1)

**HEALTH**

[healthycanadians.gc.ca](http://healthycanadians.gc.ca) (<http://healthycanadians.gc.ca/index-eng.php>)

**TRAVEL**

[travel.gc.ca](http://travel.gc.ca) (<http://www.voyage.gc.ca/index-eng.asp>)

**SERVICE CANADA**

[servicecanada.gc.ca](http://servicecanada.gc.ca) (<http://www.servicecanada.gc.ca/eng/home.shtml>)

**JOBS**

[jobbank.gc.ca](http://jobbank.gc.ca) (<http://www.jobbank.gc.ca/intro-eng.aspx>)

**ECONOMY**

[actionplan.gc.ca](http://actionplan.gc.ca) (<http://actionplan.gc.ca/eng/index.asp>)

[Canada.gc.ca](http://www.canada.gc.ca) (<http://www.canada.gc.ca/home.html>)