

# National Pollutant Release Inventory (NPRI) and Partners



[Home](#) | 
 [Submission Management](#) | 
 [Help](#) | 
 [My Profile:George Usher](#) | 
 [Logout](#) | 
 [Ec.gc.ca](#)

SWIM > 2017 > Dextran Products Ltd. > DEXTRAN PRODUCTS LIMITED > Report Preview

## Report Preview

### Report Details

Report Year	2017
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	26/05/2018 10:24 AM

### Company and Facility Details

Company Name:	Dextran Products Ltd.
Business Number:	885141861
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 421 Comstock Road City, Province/Territory, Postal Code: Scarborough Ontario M1L2H5 Country: Canada
Facility Name:	DEXTRAN PRODUCTS LIMITED
NAICS Code:	325410
NPRI ID:	577
Physical Address:	Address Line 1: 421 Comstock Road City, Province/Territory, Postal Code: Toronto Ontario M1L2H5 Country: Canada Latitude: 43.7231 Longitude: -79.2775 UTM Zone: 17 UTM Easting: 638741 UTM Northing: 4842560

### Parent Companies

Company Name:	Polydex Chemicals Ltd.
Business Number:	885141861
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 421 Comstock Road City, Province/Territory, Postal Code: Scarborough Ontario M1L2H5 Country: Canada

### Contacts Details

Contact Type	Technical Contact, Certifying Official, Highest Ranking Employee, Public Contact
Name:	George Usher
Position:	Technical Director
Telephone:	4167552231
Fax:	4167550334

Email:	sm-dextran@rogers.com
Contact Type	Person who prepared the report
Name:	Sabbir Mogra
Position:	Environmental Health and Safety Coordinator
Telephone:	4167552231
Fax:	4167550334
Email:	sm-dextran@rogers.com
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: City, Province/Territory, Postal Code: Toronto Ontario M1L2H5 Country: Canada

## General Information

Number of employees:	21
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene:	None of the above
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Is this the first time the facility is reporting to the NPRI (under current or past ownership):	No
Is the facility controlled by another Canadian company or companies:	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
Was the facility shut down for more than one week during the year:	Yes
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri
Usual Number of Operating Hours per day:	24
Usual Daily Start Time (24h) (hh:mm):	07:00

## Shutdown Periods:

From 2017-12-20 To 2017-12-31	X-Mas holidays shutdown
-------------------------------	-------------------------

## Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
7647-01-0	Hydrochloric acid	N/A	N/A	N/A	N/A	tonnes
67-63-0	Isopropyl alcohol	10.3200	N/A	7.9120	7.9120	tonnes
67-56-1	Methanol	1.1400	N/A	6.5000	6.5000	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	11.9000	11.9000	N/A	N/A	tonnes

## Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
7647-01-0	Hydrochloric acid	Yes	Yes		No
67-63-0	Isopropyl alcohol	Yes	Yes		No
67-56-1	Methanol	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No

## General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
7647-01-0	Hydrochloric acid	No	No	No
67-63-0	Isopropyl alcohol	Yes	No	No
67-56-1	Methanol	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes

## General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
7647-01-0	Hydrochloric acid	No	No	No
67-63-0	Isopropyl alcohol	Yes	No	Yes
67-56-1	Methanol	Yes	No	Yes
NA - M16	Volatile Organic Compounds (VOCs)			

## General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
7647-01-0	Hydrochloric acid		As a reactant	As a manufacturing aid
67-63-0	Isopropyl alcohol			As a physical or chemical processing aid
67-56-1	Methanol			As a physical or chemical processing aid
NA - M16	Volatile Organic Compounds (VOCs)			

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
7647-01-0	Hydrochloric acid	Use	45.948 tonnes	Yes
7647-01-0	Hydrochloric acid	Creation	0 tonnes	Yes
7647-01-0	Hydrochloric acid	Contained in Product	0 tonnes	Yes
67-63-0	Isopropyl alcohol	Use	158.40 tonnes	Yes
67-63-0	Isopropyl alcohol	Creation	0 tonnes	Yes
67-63-0	Isopropyl alcohol	Contained in Product	0 tonnes	Yes
67-56-1	Methanol	Use	15.883 tonnes	Yes
67-56-1	Methanol	Creation	0 tonnes	Yes
67-56-1	Methanol	Contained in Product	0 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Use	174.283 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		

## TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
67-63-0	Isopropyl alcohol	Use	158.400 tonnes
67-63-0	Isopropyl alcohol	Creation	0 tonnes
67-56-1	Methanol	Use	15.883 tonnes
67-56-1	Methanol	Creation	0 tonnes

## TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	174.283 tonnes
Creation	tonnes

## TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
7647-01-0	Hydrochloric acid				Decrease in production of dextran, resulted in less usage of hydrochloric acid.	No

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
67-63-0	Isopropyl alcohol				Decrease in production of dextran , resulted in less usage of isopropyl alcohol, thereby reducing usage quantity.	No
67-56-1	Methanol				Production of dextran sulphate that uses methanol has been reduced	No
NA - M16	Volatile Organic Compounds (VOCs)				Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	No

### On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-63-0	Isopropyl alcohol	Stack or Point Releases	M3 - Source Testing		6.42 tonnes
67-63-0	Isopropyl alcohol	Storage or Handling Releases	E2 - Published Emission Factors		3.2 tonnes
67-63-0	Isopropyl alcohol	Fugitive Releases	M3 - Source Testing		0.7 tonnes
67-56-1	Methanol	Stack or Point Releases	M3 - Source Testing		0.2 tonnes
67-56-1	Methanol	Storage or Handling Releases	E2 - Published Emission Factors		0.92 tonnes
67-56-1	Methanol	Fugitive Releases	O - Engineering Estimates		0.02 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	M3 - Source Testing		6.62 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Storage or Handling Releases	E2 - Published Emission Factors		4.56 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	M3 - Source Testing		0.72 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		11.90 tonnes

### On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
67-63-0	Isopropyl alcohol	10.32 tonnes
67-56-1	Methanol	1.14 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	11.90 tonnes

### On-site Releases - Releases to air - VOC Breakdown List

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	67-63-0	Isopropyl alcohol	10.32 tonnes
Other Sources - Speciated VOCs	67-56-1	Methanol	1.58 tonnes

### On-site Releases - Total

CAS RN	Substance Name	Total releases
67-63-0	Isopropyl alcohol	10.32 tonnes
67-56-1	Methanol	1.14 tonnes

### On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
67-63-0	Isopropyl alcohol	25	25	25	25
67-56-1	Methanol	25	25	25	25

### On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NA - M16	Volatile Organic Compounds (VOCs)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

### On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
67-56-1	Methanol	Changes in production levels	Production of dextran sulphate that uses methanol has been reduced, thereby resulting in less usage of methanol
67-63-0	Isopropyl alcohol	Changes in production levels	Decrease in production of dextran, resulted in less usage of isopropyl alcohol, and thereby reducing release quantity.
7647-01-0	Hydrochloric acid	Other (specify in On-site Releases comment field)	It is not released.
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol thereby resulting in less release of those

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

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-63-0	Isopropyl alcohol	Physical Treatment	C - Mass Balance		7.912 tonnes
67-56-1	Methanol	Physical Treatment	C - Mass Balance		6.5 tonnes

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

CAS RN	Substance Name	Total - Treatment Prior to Final Disposal
67-63-0	Isopropyl alcohol	7.912 tonnes
67-56-1	Methanol	6.5 tonnes

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

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
67-56-1	Methanol	Physical Treatment	GFL Environmental	1070 Toy Ave , Pickering , ON, Canada	6.5 tonnes
67-63-0	Isopropyl alcohol	Physical Treatment	GFL Environmental	1070 Toy Ave , Pickering , ON, Canada	7.912 tonnes

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

CAS RN	Substance Name	Total Quantity Disposed (All Media)
67-63-0	Isopropyl alcohol	7.912 tonnes
67-56-1	Methanol	6.5 tonnes

### Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
67-56-1	Methanol	Pollution abatement residues	Changes in production levels	Decrease in production of dextran sulphate, resulted in less usage of methanol, thereby reducing quantity of disposal recycling
67-63-0	Isopropyl alcohol	Pollution abatement residues	Changes in production levels	Decrease in production of dextran, resulted in less usage of isopropyl alcohol, and thereby reducing quantity for disposal and recycling.
7647-01-0	Hydrochloric acid		Other (specify in On-site Releases comment field)	Don't dispose this chemical.

### Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-63-0	Isopropyl alcohol	Recovery of Solvents	C - Mass Balance		7.912 tonnes
67-56-1	Methanol	Recovery of Solvents	C - Mass Balance		6.5 tonnes

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

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
67-63-0	Isopropyl alcohol	7.912 tonnes
67-56-1	Methanol	6.5 tonnes

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

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
67-56-1	Methanol	Recovery of Solvents	GFL Environmental	1070 Toy Ave , Pickering , ON, Canada	6.5 tonnes
67-63-0	Isopropyl alcohol	Recovery of Solvents	GFL Environmental	1070 Toy Ave , Pickering , ON, Canada	7.912 tonnes

### Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
67-56-1	Methanol	Pollution abatement residues	Changes in production levels	Decrease in production of dextran sulphate, resulted in less usage of methanol, thereby reducing quantity of disposal recycling
67-63-0	Isopropyl alcohol	Production Residues	Changes in production levels	Decrease in production of dextran, resulted in less usage of isopropyl alcohol, and thereby reducing quantity for disposal and recycling.
7647-01-0	Hydrochloric acid		Other (specify in recycling comments field)	Don't recycle this chemical.

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

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7647-01-0	Hydrochloric acid	No	Enters the facility (Use)	45.948 tonnes	71.722 tonnes	2013	-25.774	-35.94

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7647-01-0	Hydrochloric acid	No	Creation	0 tonnes	0 tonnes	2013	0	
7647-01-0	Hydrochloric acid	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	No	Enters the facility (Use)	158.40 tonnes	219.35 tonnes	2013	-60.95	-27.79
67-63-0	Isopropyl alcohol	No	Creation	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	Yes	Enters the facility (Use)	158.400 tonnes	219.35 tonnes	2013	-60.950	-27.79
67-63-0	Isopropyl alcohol	Yes	Creation	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Enters the facility (Use)	15.883 tonnes	33.13 tonnes	2013	-17.247	-52.06
67-56-1	Methanol	No	Creation	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Contained in Product	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	Yes	Enters the facility (Use)	15.883 tonnes	33.13 tonnes	2013	-17.247	-52.06
67-56-1	Methanol	Yes	Creation	0 tonnes	0 tonnes	2013	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7647-01-0	Hydrochloric acid	Decrease in production levels	
67-63-0	Isopropyl alcohol	Decrease in production levels	
67-56-1	Methanol	Decrease in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Other	Decrease in production of dextran and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol

### Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-63-0	Isopropyl alcohol	No	Total Releases to Air	10.32 tonnes	16.12 tonnes	2013	-5.80	-35.98
67-63-0	Isopropyl alcohol	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	No	Total Releases to All Media	0 tonnes	0 tonnes	2012	0	
67-63-0	Isopropyl alcohol	Yes	Total Releases to Air	10.32 tonnes	16.12 tonnes	2013	-5.80	-35.98
67-56-1	Methanol	No	Total Releases to Air	1.14 tonnes	1.657 tonnes	2013	-0.517	-31.20
67-56-1	Methanol	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total Releases to All Media	0 tonnes	0 tonnes	2012	0	
67-56-1	Methanol	Yes	Total Releases to Air	1.58 tonnes	1.657 tonnes	2013	-0.077	-4.65

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	Decrease in production levels	
67-56-1	Methanol	Other	Longer operation of the scrubber and more usage of methanol for recovery of final product
NA - M16	Volatile Organic Compounds (VOCs)	Other	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol

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

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
--------	----------------	--------------	----------	----------	------------------------	--	--------	----------

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-63-0	Isopropyl alcohol	No	Total On-site Disposals	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	No	Total Off-site Disposals	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	No	Total Off-site transfer for treatment Prior to Final Disposal	7.912 tonnes	10.81 tonnes	2013	-2.898	-26.81
67-63-0	Isopropyl alcohol	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2013	0	
67-63-0	Isopropyl alcohol	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total On-site Disposals	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total Off-site Disposals	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total Off-site transfer for treatment Prior to Final Disposal	6.5 tonnes	19.20 tonnes	2013	-12.70	-66.15
67-56-1	Methanol	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2013	0	

### Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	Decrease in production levels	
67-56-1	Methanol	Decrease in production levels	

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

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-63-0	Isopropyl alcohol	No	Total off-site Transfers for Recycling	7.912 tonnes	10.81 tonnes	2013	-2.898	-26.81
67-56-1	Methanol	No	Total off-site Transfers for Recycling	6.5 tonnes	19.20 tonnes	2013	-12.70	-66.15

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	Decrease in production levels	
67-56-1	Methanol	Decrease in production levels	

### Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was prepared or implemented for another government jurisdiction (i.e. other Federal government department, province, municipality). Specify name in comments field below.

b) Did the facility update their plan in the current reporting year?

No

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

Substances (provide the name of the primary Substances in the comments field below)

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

The company has scrubbers for air pollution control.

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

No

### Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
7647-01-0	Hydrochloric acid	We plan to reformulate on process and investigate alternate equipment
67-63-0	Isopropyl alcohol	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.
67-56-1	Methanol	More accurate measurement of Methanol during addition.

## Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
7647-01-0	Hydrochloric acid	129.86 kg	5	Some reductions will be implemented immediately, others will require purchase and installation of new equipment
67-63-0	Isopropyl alcohol	25 tonnes	5	
67-56-1	Methanol	1200 kg	5	Changes will require product being put on stability to show customers there is no deliterious effect on the product

## Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
7647-01-0	Hydrochloric acid	No quantity target	No timeline target	
67-63-0	Isopropyl alcohol	No quantity target	No timeline target	Product is not created at this facility
67-56-1	Methanol	No quantity target	No timeline target	Product is not created on site

## Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
7647-01-0	Hydrochloric acid	Other	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol
67-63-0	Isopropyl alcohol	Modified design or composition	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol
67-56-1	Methanol	Improved application techniques	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol	Decrease in production of dextran, and dextran sulphate resulted in less usage of both methanol, and isopropyl alcohol

CAS RN	Substance Name	Activity	Will the timelines in the current version of the plan will be met	Comments:
7647-01-0	Hydrochloric acid	Other	No	
67-63-0	Isopropyl alcohol	Modified design or composition	No	
67-56-1	Methanol	Improved application techniques	No	

## Progress on TRA Plan - Reductions due to Options Implemented - Equipment or process modifications

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
67-56-1	Methanol	Improved application techniques	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Improved application techniques	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount

## Progress on TRA Plan - Reductions due to Options Implemented - Materials or feedstock substitution



CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
7647-01-0	Hydrochloric acid	Other	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7647-01-0	Hydrochloric acid	Other	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount

### Progress on TRA Plan - Reductions due to Options Implemented - Product design or reformulation

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-63-0	Isopropyl alcohol	Modified design or composition	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount

### Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
7647-01-0	Hydrochloric acid	No		
67-63-0	Isopropyl alcohol	No		
67-56-1	Methanol	No		

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

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
7647-01-0	Hydrochloric acid	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
7647-01-0	Hydrochloric acid	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
67-63-0	Isopropyl alcohol	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
67-63-0	Isopropyl alcohol	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	

## Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
7647-01-0	Hydrochloric acid	No		
67-63-0	Isopropyl alcohol	No		
67-56-1	Methanol	No		

## Report Submission and Electronic Certification

### NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Dextran Products Ltd.

Certifying Official (or authorized delegate)

George Usher

Report Submitted by

George Usher

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

Annual Report Certification Statement

As of 26/05/2018, I, George Usher, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN	Substance Name
7647-01-0	Hydrochloric acid
67-63-0	Isopropyl alcohol
67-56-1	Methanol

Company Name  
Dextran Products Ltd.

Highest Ranking Employee  
George Usher

Report Submitted by  
George Usher

Website address

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

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2017	26/05/2018	DEXTRAN PRODUCTS LIMITED	Ontario	Toronto	NPRI,ON MOE TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.14.0

