



National Pollutant Release Inventory (NPRI) and



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Report Preview

Report Details

Report Year

2016

Report Type:

NPRI, ON MOE TRA, ON MOE

Report Status:

Submitted

Modified Date/Time:

17/05/2017 2:39 PM

Company and Facility Details

Company Name:

Mancuso Chemicals Limited

Business Number:

103477485

Mailing Address:

Delivery Mode: GeneralDelivery
Address Line 1: 5725 Progress Street Street
City, Province/Territory, Postal Code: Niagara Falls Ontario L2G0C1
Country: Canada

Facility Name:

NIAGARA FALLS

NAICS Code:

325210

NPRI ID:

728

ON Reg 127/01 ID:

200100

Physical Address:

Address Line 1: 5725 Progress Street
City, Province/Territory, Postal Code: Niagara Falls Ontario L2E6X8
Country: Canada
Latitude: 43.05520
Longitude: -79.08800
UTM Zone: 17
UTM Easting: 655588
UTM Northing: 4768596

Permits

Number or Permit Number:

200100

Government Department, Agency, or Program
Name:

ON MOE

Number or Permit Number:

5216-84QFB5

Government Department, Agency, or Program
Name:

MOE

Number or Permit Number:

0

Government Department, Agency, or Program
Name:

0

Contacts Details

Contact Type

Technical Contact, Person who prepared the report, Company Coordinator

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Name:	Dave Senior
Position:	General Manager
Telephone:	9053573626
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General Information

Number of employees:	43
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:	None of the above
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Is this the first time the facility is reporting to the NPRI (under current or past ownership):	No
Is the facility controlled by another Canadian company or companies:	No
Did the facility report under other environmental regulations or permits:	Yes
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	No
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri
Usual Number of Operating Hours per day:	24
Usual Daily Start Time (24h) (hh:mm):	07:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
95-63-6	1,2,4-Trimethylbenzene	0.0005	N/A	N/A	N/A	tonnes
111-76-2	2-Butoxyethanol	0.0000	N/A	N/A	N/A	tonnes
67-64-1	Acetone	0.0013	N/A	N/A	N/A	tonnes
80-05-7	Bisphenol A	0.0000	N/A	N/A	N/A	kg
98-82-8	Cumene	0.0000	N/A	N/A	N/A	tonnes
100-41-4	Ethylbenzene	0.0190	N/A	N/A	N/A	tonnes
107-21-1	Ethylene glycol	0.0000	N/A	N/A	N/A	tonnes
67-56-1	Methanol	0.0310	N/A	N/A	N/A	tonnes
101-68-8	Methylenebis(phenylisocyanate)	0.0000	N/A	N/A	N/A	tonnes
91-20-3	Naphthalene	0.0000	N/A	N/A	N/A	tonnes
108-95-2	Phenol (and its salts)	0.0032	N/A	N/A	N/A	tonnes
85-44-9	Phthalic anhydride	0.0000	N/A	N/A	N/A	tonnes
9016-87-9	Polymeric diphenylmethane diisocyanate	0.0000	N/A	N/A	N/A	tonnes
7664-93-9	Sulphuric acid	0.0000	N/A	N/A	N/A	tonnes

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
108-88-3	Toluene	0.0853	N/A	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	0.0135	N/A	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
95-63-6	1,2,4-Trimethylbenzene	Yes	Yes		No
111-76-2	2-Butoxyethanol	Yes	Yes		No
67-64-1	Acetone		Yes	Yes	No
80-05-7	Bisphenol A	Yes	Yes		No
98-82-8	Cumene	No	No		No
100-41-4	Ethylbenzene	Yes	Yes		No
107-21-1	Ethylene glycol	Yes	Yes		No
67-56-1	Methanol	Yes	Yes		No
101-68-8	Methylenebis(phenylisocyanate)	Yes	Yes		No
91-20-3	Naphthalene	Yes	Yes		No
108-95-2	Phenol (and its salts)	Yes	Yes		No
85-44-9	Phthalic anhydride	Yes	Yes		No
9016-87-9	Polymeric diphenylmethane diisocyanate	Yes	Yes		No
7664-93-9	Sulphuric acid	Yes	Yes		No
108-88-3	Toluene	Yes	Yes		No
1330-20-7	Xylene (all isomers)	Yes	Yes		No

TRA Exit Record

CAS RN	Substance Name	Circumstance(s) that apply	Describe the circumstances that lead to the criteria no longer being met	Describe the information and any quantifications relied upon for making the determination
98-82-8	Cumene	The substance did not meet the criteria to provide information to NPRI	The facility used less of the materials that contain cumene resulting in the total MPO quantity being less than the reporting threshold value.	Material usage data and composition data was evaluated to determine that cumene did not meet the reporting threshold.

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
95-63-6	1,2,4-Trimethylbenzene	Yes	No	No
111-76-2	2-Butoxyethanol	Yes	No	No
67-64-1	Acetone	Yes	No	No
80-05-7	Bisphenol A	Yes	No	No
98-82-8	Cumene	Yes	No	No
100-41-4	Ethylbenzene	Yes	No	No
107-21-1	Ethylene glycol	Yes	No	No
67-56-1	Methanol	Yes	No	No
101-68-8	Methylenebis(phenylisocyanate)	Yes	No	No
91-20-3	Naphthalene	Yes	No	No
108-95-2	Phenol (and its salts)	Yes	No	No
85-44-9	Phthalic anhydride	Yes	No	No
9016-87-9	Polymeric diphenylmethane diisocyanate	Yes	No	No
7664-93-9	Sulphuric acid	Yes	No	No
108-88-3	Toluene	Yes	No	No
1330-20-7	Xylene (all isomers)	Yes	No	No

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

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
95-63-6	1,2,4-Trimethylbenzene	No	No	No
111-76-2	2-Butoxyethanol	No	No	No

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
67-64-1	Acetone	No	No	No
80-05-7	Bisphenol A	No	No	No
98-82-8	Cumene	No	No	No
100-41-4	Ethylbenzene	No	No	No
107-21-1	Ethylene glycol	No	No	No
67-56-1	Methanol	No	No	No
101-68-8	Methylenebis(phenylisocyanate)	No	No	No
91-20-3	Naphthalene	No	No	No
108-95-2	Phenol (and its salts)	No	No	No
85-44-9	Phthalic anhydride	No	No	No
9016-87-9	Polymeric diphenylmethane diisocyanate	No	No	No
7664-93-9	Sulphuric acid	No	No	No
108-88-3	Toluene	No	No	No
1330-20-7	Xylene (all isomers)	No	No	No

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
95-63-6	1,2,4-Trimethylbenzene		As a formulation component	
111-76-2	2-Butoxyethanol		As a formulation component	
67-64-1	Acetone		As a formulation component	
80-05-7	Bisphenol A		As a formulation component	
98-82-8	Cumene		As a formulation component	
100-41-4	Ethylbenzene		As a formulation component	
107-21-1	Ethylene glycol		As a formulation component	
67-56-1	Methanol		As a formulation component	
101-68-8	Methylenebis(phenylisocyanate)		As a formulation component	
91-20-3	Naphthalene		As a formulation component	
108-95-2	Phenol (and its salts)		As a formulation component	
85-44-9	Phthalic anhydride		As a formulation component	
9016-87-9	Polymeric diphenylmethane diisocyanate		As a formulation component	
7664-93-9	Sulphuric acid		As a formulation component	
108-88-3	Toluene		As a formulation component	
1330-20-7	Xylene (all isomers)		As a formulation component	

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
95-63-6	1,2,4-Trimethylbenzene	Use	59.055 tonnes	Yes
95-63-6	1,2,4-Trimethylbenzene	Creation	0 tonnes	Yes
95-63-6	1,2,4-Trimethylbenzene	Contained	59.054 tonnes	Yes
111-76-2	2-Butoxyethanol	Use	11.433 tonnes	Yes
111-76-2	2-Butoxyethanol	Creation	0 tonnes	Yes
111-76-2	2-Butoxyethanol	Contained	11.433 tonnes	Yes
67-64-1	Acetone	Use	15.616 tonnes	Yes
67-64-1	Acetone	Creation	0 tonnes	Yes
67-64-1	Acetone	Contained		
80-05-7	Bisphenol A	Use	98405 kg	Yes
80-05-7	Bisphenol A	Creation	0 kg	Yes
80-05-7	Bisphenol A	Contained	98405 kg	Yes
100-41-4	Ethylbenzene	Use	208.563 tonnes	Yes
100-41-4	Ethylbenzene	Creation	0 tonnes	Yes
100-41-4	Ethylbenzene	Contained	175.382 tonnes	Yes
107-21-1	Ethylene glycol	Use	115.048 tonnes	Yes
107-21-1	Ethylene glycol	Creation	0 tonnes	Yes
107-21-1	Ethylene glycol	Contained	115.048 tonnes	Yes
67-56-1	Methanol	Use	188.595 tonnes	Yes

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
67-56-1	Methanol	Creation	0 tonnes	Yes
67-56-1	Methanol	Contained	188.564 tonnes	Yes
101-68-8	Methylenebis(phenylisocyanate)	Use	474.666 tonnes	Yes
101-68-8	Methylenebis(phenylisocyanate)	Creation	0 tonnes	Yes
101-68-8	Methylenebis(phenylisocyanate)	Contained	474.666 tonnes	Yes
91-20-3	Naphthalene	Use	29.348 tonnes	Yes
91-20-3	Naphthalene	Creation	0 tonnes	Yes
91-20-3	Naphthalene	Contained	29.348 tonnes	Yes
108-95-2	Phenol (and its salts)	Use	1541.286 tonnes	Yes
108-95-2	Phenol (and its salts)	Creation	0 tonnes	Yes
108-95-2	Phenol (and its salts)	Contained	352.798 tonnes	Yes
85-44-9	Phthalic anhydride	Use	499.324 tonnes	Yes
85-44-9	Phthalic anhydride	Creation	0 tonnes	Yes
85-44-9	Phthalic anhydride	Contained	0.000 tonnes	Yes
9016-87-9	Polymeric diphenylmethane diisocyanate	Use	652.666 tonnes	Yes
9016-87-9	Polymeric diphenylmethane diisocyanate	Creation	0 tonnes	Yes
9016-87-9	Polymeric diphenylmethane diisocyanate	Contained	652.666 tonnes	Yes
7664-93-9	Sulphuric acid	Use	394.537 tonnes	Yes
7664-93-9	Sulphuric acid	Creation	0 tonnes	Yes
7664-93-9	Sulphuric acid	Contained	394.537 tonnes	Yes
108-88-3	Toluene	Use	565.318 tonnes	Yes
108-88-3	Toluene	Creation	0 tonnes	Yes
108-88-3	Toluene	Contained	236.014 tonnes	Yes
1330-20-7	Xylene (all isomers)	Use	700.833 tonnes	Yes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes	Yes
1330-20-7	Xylene (all isomers)	Contained	590.281 tonnes	Yes

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Incidents out of the normal course of events	Significant Process Change
95-63-6	1,2,4-Trimethylbenzene					No
111-76-2	2-Butoxyethanol					No
67-64-1	Acetone					No
80-05-7	Bisphenol A					No
100-41-4	Ethylbenzene					No
107-21-1	Ethylene glycol					No
67-56-1	Methanol					No
101-68-8	Methylenebis(phenylisocyanate)					No
91-20-3	Naphthalene					No
108-95-2	Phenol (and its salts)					No
85-44-9	Phthalic anhydride					No
9016-87-9	Polymeric diphenylmethane diisocyanate					No
7664-93-9	Sulphuric acid					No
108-88-3	Toluene					No
1330-20-7	Xylene (all isomers)					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
95-63-6	1,2,4-Trimethylbenzene	Stack or Point Releases	O - Engineering Estimates		0.0005 tonnes
111-76-2	2-Butoxyethanol	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes
67-64-1	Acetone	Stack or Point Releases	O - Engineering Estimates		0.0013 tonnes
80-05-7	Bisphenol A	Stack or Point Releases	O - Engineering Estimates		0.0000 kg
98-82-8	Cumene	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes
100-41-4	Ethylbenzene	Stack or Point Releases	O - Engineering Estimates		0.0190 tonnes
107-21-1	Ethylene glycol	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-56-1	Methanol	Stack or Point Releases	O - Engineering Estimates		0.0310 tonnes
101-68-8	Methylenebis(phenylisocyanate)	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes
91-20-3	Naphthalene	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes
108-95-2	Phenol (and its salts)	Stack or Point Releases	O - Engineering Estimates		0.0032 tonnes
85-44-9	Phthalic anhydride	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes
9016-87-9	Polymeric diphenylmethane diisocyanate	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes
7664-93-9	Sulphuric acid	Stack or Point Releases	O - Engineering Estimates		0.0000 tonnes
108-88-3	Toluene	Stack or Point Releases	O - Engineering Estimates		0.0853 tonnes
1330-20-7	Xylene (all isomers)	Stack or Point Releases	O - Engineering Estimates		0.0135 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
95-63-6	1,2,4-Trimethylbenzene	0.0005 tonnes
111-76-2	2-Butoxyethanol	0.0000 tonnes
67-64-1	Acetone	0.0013 tonnes
80-05-7	Bisphenol A	0.0000 kg
98-82-8	Cumene	0.0000 tonnes
100-41-4	Ethylbenzene	0.0190 tonnes
107-21-1	Ethylene glycol	0.0000 tonnes
67-56-1	Methanol	0.0310 tonnes
101-68-8	Methylenebis(phenylisocyanate)	0.0000 tonnes
91-20-3	Naphthalene	0.0000 tonnes
108-95-2	Phenol (and its salts)	0.0032 tonnes
85-44-9	Phthalic anhydride	0.0000 tonnes
9016-87-9	Polymeric diphenylmethane diisocyanate	0.0000 tonnes
7664-93-9	Sulphuric acid	0.0000 tonnes
108-88-3	Toluene	0.0853 tonnes
1330-20-7	Xylene (all isomers)	0.0135 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
95-63-6	1,2,4-Trimethylbenzene	0.0005 tonnes
111-76-2	2-Butoxyethanol	0.0000 tonnes
80-05-7	Bisphenol A	0.0000 kg
98-82-8	Cumene	0.0000 tonnes
100-41-4	Ethylbenzene	0.0190 tonnes
107-21-1	Ethylene glycol	0.0000 tonnes
67-56-1	Methanol	0.0310 tonnes
101-68-8	Methylenebis(phenylisocyanate)	0.0000 tonnes
91-20-3	Naphthalene	0.0000 tonnes
108-95-2	Phenol (and its salts)	0.0032 tonnes
85-44-9	Phthalic anhydride	0.0000 tonnes
9016-87-9	Polymeric diphenylmethane diisocyanate	0.0000 tonnes
7664-93-9	Sulphuric acid	0.0000 tonnes
108-88-3	Toluene	0.0853 tonnes
1330-20-7	Xylene (all isomers)	0.0135 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
95-63-6	1,2,4-Trimethylbenzene	25	25	25	25
100-41-4	Ethylbenzene	25	25	25	25
67-56-1	Methanol	25	25	25	25
108-95-2	Phenol (and its salts)	25	25	25	25
108-88-3	Toluene	25	25	25	25
1330-20-7	Xylene (all isomers)	25	25	25	25

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

CAS RN	Substance Name	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
100-41-4	Ethylbenzene	No significant change (i.e. < 10%) or no change	
101-68-8	Methylenebis(phenylisocyanate)	No significant change (i.e. < 10%) or no change	
107-21-1	Ethylene glycol	No significant change (i.e. < 10%) or no change	
108-88-3	Toluene	No significant change (i.e. < 10%) or no change	
108-95-2	Phenol (and its salts)	No significant change (i.e. < 10%) or no change	
111-76-2	2-Butoxyethanol	No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)	No significant change (i.e. < 10%) or no change	
67-56-1	Methanol	No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid	No significant change (i.e. < 10%) or no change	
80-05-7	Bisphenol A	No significant change (i.e. < 10%) or no change	
85-44-9	Phthalic anhydride	No significant change (i.e. < 10%) or no change	
9016-87-9	Polymeric diphenylmethane diisocyanate	No significant change (i.e. < 10%) or no change	
91-20-3	Naphthalene	No significant change (i.e. < 10%) or no change	
95-63-6	1,2,4-Trimethylbenzene	No significant change (i.e. < 10%) or no change	
98-82-8	Cumene	No significant change (i.e. < 10%) or no change	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
100-41-4	Ethylbenzene		No significant change (i.e. < 10%) or no change	
101-68-8	Methylenebis(phenylisocyanate)		No significant change (i.e. < 10%) or no change	
107-21-1	Ethylene glycol		No significant change (i.e. < 10%) or no change	
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
108-95-2	Phenol (and its salts)		No significant change (i.e. < 10%) or no change	
111-76-2	2-Butoxyethanol		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid		No significant change (i.e. < 10%) or no change	
80-05-7	Bisphenol A		No significant change (i.e. < 10%) or no change	
85-44-9	Phthalic anhydride		No significant change (i.e. < 10%) or no change	
9016-87-9	Polymeric diphenylmethane diisocyanate		No significant change (i.e. < 10%) or no change	
91-20-3	Naphthalene		No significant change (i.e. < 10%) or no change	
95-63-6	1,2,4-Trimethylbenzene		No significant change (i.e. < 10%) or no change	
98-82-8	Cumene		No significant change (i.e. < 10%) or no change	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
100-41-4	Ethylbenzene		No significant change (i.e. < 10%) or no change	
101-68-8	Methylenebis(phenylisocyanate)		No significant change (i.e. < 10%) or no change	
107-21-1	Ethylene glycol		No significant change (i.e. < 10%) or no change	
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
108-95-2	Phenol (and its salts)		No significant change (i.e. < 10%) or no change	
111-76-2	2-Butoxyethanol		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid		No significant change (i.e. < 10%) or no change	
80-05-7	Bisphenol A		No significant change (i.e. < 10%) or no change	
85-44-9	Phthalic anhydride		No significant change (i.e. < 10%) or no change	
9016-87-9	Polymeric diphenylmethane diisocyanate		No significant change (i.e. < 10%) or no change	
91-20-3	Naphthalene		No significant change (i.e. < 10%) or no change	
95-63-6	1,2,4-Trimethylbenzene		No significant change (i.e. < 10%) or no change	
98-82-8	Cumene		No significant change (i.e. < 10%) or no change	

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
95-63-6	1,2,4-Trimethylbenzene	No	Enters the facility (Use)	59.055 tonnes	85.684 tonnes	2015	-26.629	-31.08
95-63-6	1,2,4-Trimethylbenzene	No	Creation	0 tonnes	0 tonnes	2015	0	
95-63-6	1,2,4-Trimethylbenzene	No	Contained	59.054 tonnes	85.684 tonnes	2015	-26.630	-31.08
111-76-2	2-Butoxyethanol	No	Enters the facility (Use)	11.433 tonnes	16.553 tonnes	2015	-5.120	-30.93
111-76-2	2-Butoxyethanol	No	Creation	0 tonnes	0 tonnes	2015	0	
111-76-2	2-Butoxyethanol	No	Contained	11.433 tonnes	16.553 tonnes	2015	-5.120	-30.93
67-64-1	Acetone	No	Enters the facility (Use)	15.616 tonnes	17.396 tonnes	2015	-1.780	-10.23
67-64-1	Acetone	No	Creation	0 tonnes	0 tonnes	2015	0	
80-05-7	Bisphenol A	No	Enters the facility (Use)	98405 kg	99527 kg	2015	-1122	-1.13
80-05-7	Bisphenol A	No	Creation	0 kg	0 kg	2015	0	
80-05-7	Bisphenol A	No	Contained	98405 kg	99527 kg	2015	-1122	-1.13
100-41-4	Ethylbenzene	No	Enters the facility (Use)	208.563 tonnes	204.154 tonnes	2015	4.409	2.16
100-41-4	Ethylbenzene	No	Creation	0 tonnes	0 tonnes	2015	0	
100-41-4	Ethylbenzene	No	Contained	175.382 tonnes	176.967 tonnes	2015	-1.585	-0.90
107-21-1	Ethylene glycol	No	Enters the facility (Use)	115.048 tonnes	73.366 tonnes	2015	41.682	56.81
107-21-1	Ethylene glycol	No	Creation	0 tonnes	0 tonnes	2015	0	
107-21-1	Ethylene glycol	No	Contained	115.048 tonnes	73.366 tonnes	2015	41.682	56.81
67-56-1	Methanol	No	Enters the facility (Use)	188.595 tonnes	149.419 tonnes	2015	39.176	26.22
67-56-1	Methanol	No	Creation	0 tonnes	0 tonnes	2015	0	
67-56-1	Methanol	No	Contained	188.564 tonnes	149.388 tonnes	2015	39.176	26.22
101-68-8	Methylenebis(phenylisocyanate)	No	Enters the facility (Use)	474.666 tonnes	615.030 tonnes	2015	-140.364	-22.82
101-68-8	Methylenebis(phenylisocyanate)	No	Creation	0 tonnes	0 tonnes	2015	0	
101-68-8	Methylenebis(phenylisocyanate)	No	Contained	474.666 tonnes	615.030 tonnes	2015	-140.364	-22.82
91-20-3	Naphthalene	No	Enters the facility (Use)	29.348 tonnes	36.043 tonnes	2015	-6.695	-18.58
91-20-3	Naphthalene	No	Creation	0 tonnes	0 tonnes	2015	0	
91-20-3	Naphthalene	No	Contained	29.348 tonnes	36.043 tonnes	2015	-6.695	-18.58
108-95-2	Phenol (and its salts)	No	Enters the facility (Use)	1541.286 tonnes	1947.333 tonnes	2015	-406.047	-20.85
108-95-2	Phenol (and its salts)	No	Creation	0 tonnes	0 tonnes	2015	0	
108-95-2	Phenol (and its salts)	No	Contained	352.798 tonnes	56.141 tonnes	2015	296.657	528.41
85-44-9	Phthalic anhydride	No	Enters the facility (Use)	499.324 tonnes	538.625 tonnes	2015	-39.301	-7.30
85-44-9	Phthalic anhydride	No	Creation	0 tonnes	0 tonnes	2015	0	
85-44-9	Phthalic anhydride	No	Contained	0.000 tonnes	0.000 tonnes	2015	0.000	
9016-87-9	Polymeric diphenylmethane diisocyanate	No	Enters the facility (Use)	652.666 tonnes	845.633 tonnes	2015	-192.967	-22.82
9016-87-9	Polymeric diphenylmethane diisocyanate	No	Creation	0 tonnes	0 tonnes	2015	0	
9016-87-9	Polymeric diphenylmethane diisocyanate	No	Contained	652.666 tonnes	845.633 tonnes	2015	-192.967	-22.82
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	394.537 tonnes	368.293 tonnes	2015	26.244	7.13
7664-93-9	Sulphuric acid	No	Creation	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Contained	394.537 tonnes	368.293 tonnes	2015	26.244	7.13
108-88-3	Toluene	No	Enters the facility (Use)	565.318 tonnes	612.523 tonnes	2015	-47.205	-7.71
108-88-3	Toluene	No	Creation	0 tonnes	0 tonnes	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
108-88-3	Toluene	No	Contained	236.014 tonnes	240.474 tonnes	2015	-4.460	-1.85
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	700.833 tonnes	686.017 tonnes	2015	14.816	2.16
1330-20-7	Xylene (all isomers)	No	Creation	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	No	Contained	590.281 tonnes	595.443 tonnes	2015	-5.162	-0.87

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

CAS RN	Substance Name	Reason(s) for Change				Other Reason
95-63-6	1,2,4-Trimethylbenzene	Decrease in production levels				
111-76-2	2-Butoxyethanol	Decrease in production levels				
67-64-1	Acetone	No reasons - quantities approximately the same				
80-05-7	Bisphenol A	No reasons - quantities approximately the same				
100-41-4	Ethylbenzene	No reasons - quantities approximately the same				
107-21-1	Ethylene glycol	Increase in production levels				
67-56-1	Methanol	Increase in production levels				
101-68-8	Methylenebis(phenylisocyanate)	Decrease in production levels				
91-20-3	Naphthalene	Decrease in production levels				
108-95-2	Phenol (and its salts)	Decrease in production levels				
85-44-9	Phthalic anhydride	No reasons - quantities approximately the same				
9016-87-9	Polymeric diphenylmethane diisocyanate	Decrease in production levels				
7664-93-9	Sulphuric acid	No reasons - quantities approximately the same				
108-88-3	Toluene	Decrease in production levels				
1330-20-7	Xylene (all isomers)	No reasons - quantities approximately the same				

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
95-63-6	1,2,4-Trimethylbenzene	No	Total Releases to Air	0.0005 tonnes	0.0005 tonnes	2015	0.0000	0
95-63-6	1,2,4-Trimethylbenzene	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
95-63-6	1,2,4-Trimethylbenzene	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
95-63-6	1,2,4-Trimethylbenzene	No	Total Releases to All Media	0 tonnes				
111-76-2	2-Butoxyethanol	No	Total Releases to Air	0.0000 tonnes	0.0000 tonnes	2015	0.0000	
111-76-2	2-Butoxyethanol	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
111-76-2	2-Butoxyethanol	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
111-76-2	2-Butoxyethanol	No	Total Releases to All Media	0 tonnes				
67-64-1	Acetone	No	Total Releases to Air	0.0013 tonnes	0.0013 tonnes	2015	0.0000	0
67-64-1	Acetone	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
67-64-1	Acetone	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
67-64-1	Acetone	No	Total Releases to All Media	0 tonnes				
80-05-7	Bisphenol A	No	Total Releases to Air	0.0000 kg	0.0000 kg	2015	0.0000	
80-05-7	Bisphenol A	No	Total Releases to Water	0 kg	0 kg	2015	0	
80-05-7	Bisphenol A	No	Total Releases to Land	0 kg	0 kg	2015	0	
80-05-7	Bisphenol A	No	Total Releases to All Media	0 kg				
100-41-4	Ethylbenzene	No	Total Releases to Air	0.0190 tonnes	0.0190 tonnes	2015	0.0000	0

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
100-41-4	Ethylbenzene	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
100-41-4	Ethylbenzene	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
100-41-4	Ethylbenzene	No	Total Releases to All Media	0 tonnes				
107-21-1	Ethylene glycol	No	Total Releases to Air	0.0000 tonnes	0.0000 tonnes	2015	0.0000	
107-21-1	Ethylene glycol	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
107-21-1	Ethylene glycol	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
107-21-1	Ethylene glycol	No	Total Releases to All Media	0 tonnes				
67-56-1	Methanol	No	Total Releases to Air	0.0310 tonnes	0.0310 tonnes	2015	0.0000	0
67-56-1	Methanol	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
67-56-1	Methanol	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
67-56-1	Methanol	No	Total Releases to All Media	0 tonnes				
101-68-8	Methylenebis(phenylisocyanate)	No	Total Releases to Air	0.0000 tonnes	0.0000 tonnes	2015	0.0000	
101-68-8	Methylenebis(phenylisocyanate)	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
101-68-8	Methylenebis(phenylisocyanate)	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
101-68-8	Methylenebis(phenylisocyanate)	No	Total Releases to All Media	0 tonnes				
91-20-3	Naphthalene	No	Total Releases to Air	0.0000 tonnes	0.0000 tonnes	2015	0.0000	
91-20-3	Naphthalene	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
91-20-3	Naphthalene	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
91-20-3	Naphthalene	No	Total Releases to All Media	0 tonnes				
108-95-2	Phenol (and its salts)	No	Total Releases to Air	0.0032 tonnes	0.0032 tonnes	2015	0.0000	0
108-95-2	Phenol (and its salts)	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
108-95-2	Phenol (and its salts)	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
108-95-2	Phenol (and its salts)	No	Total Releases to All Media	0 tonnes				
85-44-9	Phthalic anhydride	No	Total Releases to Air	0.0000 tonnes	0.0000 tonnes	2015	0.0000	
85-44-9	Phthalic anhydride	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
85-44-9	Phthalic anhydride	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
85-44-9	Phthalic anhydride	No	Total Releases to All Media	0 tonnes				
9016-87-9	Polymeric diphenylmethane diisocyanate	No	Total Releases to Air	0.0000 tonnes	0.0000 tonnes	2015	0.0000	
9016-87-9	Polymeric diphenylmethane diisocyanate	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
9016-87-9	Polymeric diphenylmethane diisocyanate	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
9016-87-9	Polymeric diphenylmethane diisocyanate	No	Total Releases to All Media	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to Air	0.0000 tonnes	0.0000 tonnes	2015	0.0000	
7664-93-9	Sulphuric acid	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Releases to All Media	0 tonnes				

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
108-88-3	Toluene	No	Total Releases to Air	0.0853 tonnes	0.0853 tonnes	2015	0.0000	0
108-88-3	Toluene	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
108-88-3	Toluene	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
108-88-3	Toluene	No	Total Releases to All Media	0 tonnes				
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	0.0135 tonnes	0.0135 tonnes	2015	0.0000	0
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to All Media	0 tonnes				

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
95-63-6	1,2,4-Trimethylbenzene	No reasons - quantities approximately the same	
111-76-2	2-Butoxyethanol	No reasons - quantities approximately the same	
67-64-1	Acetone	No reasons - quantities approximately the same	
80-05-7	Bisphenol A	No reasons - quantities approximately the same	
100-41-4	Ethylbenzene	No reasons - quantities approximately the same	
107-21-1	Ethylene glycol	No reasons - quantities approximately the same	
67-56-1	Methanol	No reasons - quantities approximately the same	
101-68-8	Methylenebis(phenylisocyanate)	No reasons - quantities approximately the same	
91-20-3	Naphthalene	No reasons - quantities approximately the same	
108-95-2	Phenol (and its salts)	No reasons - quantities approximately the same	
85-44-9	Phthalic anhydride	No reasons - quantities approximately the same	
9016-87-9	Polymeric diphenylmethane diisocyanate	No reasons - quantities approximately the same	
7664-93-9	Sulphuric acid	No reasons - quantities approximately the same	
108-88-3	Toluene	No reasons - quantities approximately the same	
1330-20-7	Xylene (all isomers)	No reasons - quantities approximately the same	

Pollution Prevention

Does the facility have a documented pollution prevention plan?

No

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
95-63-6	1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of 1,2,4-trimethylbenzene used at the facility and therefore there is no target reduction.
111-76-2	2-Butoxyethanol	Ethylene glycol monobutyl ether will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of ethylene glycol monobutyl ether used at the facility and therefore there is no target reduction.
67-64-1	Acetone	Acetone will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of acetone used at the facility and therefore there is no target reduction.
80-05-7	Bisphenol A	Bisphenol A will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of bisphenol A used at the facility and therefore there is no target reduction.
100-41-4	Ethylbenzene	Ethyl benzene will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of ethyl benzene used at the facility and therefore there is no target reduction.
107-21-1	Ethylene glycol	Ethylene glycol will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of ethylene glycol used at the facility and therefore there is no target reduction.
67-56-1	Methanol	Methanol will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of methanol used at the facility and therefore there is no target reduction.

CAS RN	Substance Name	Objectives
101-68-8	Methylenebis(phenylisocyanate)	MDI will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of MDI used at the facility and therefore there is no target reduction.
91-20-3	Naphthalene	Naphthalene will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of naphthalene used at the facility and therefore there is no target reduction.
108-95-2	Phenol (and its salts)	Phenol will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of phenol used at the facility and therefore there is no target reduction.
85-44-9	Phthalic anhydride	Phenol will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of phthalic anhydride used at the facility and therefore there is no target reduction.
9016-87-9	Polymeric diphenylmethane diisocyanate	pMDI will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of pMDI used at the facility and therefore there is no target reduction.
7664-93-9	Sulphuric acid	Sulfuric acid will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of sulfuric acid used at the facility and therefore there is no target reduction.
108-88-3	Toluene	Toluene will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of toluene used at the facility and therefore there is no target reduction.
1330-20-7	Xylene (all isomers)	Xylene will continue to be used at Mancuso Chemicals Limited in a responsible manner following any environmental regulations. Mancuso Chemicals Limited does not intend to reduce the amount of xylene used at the facility and therefore there is no target reduction.

Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
95-63-6	1,2,4-Trimethylbenzene	No quantity target	No timeline target	
111-76-2	2-Butoxyethanol	No quantity target	No timeline target	
67-64-1	Acetone	No quantity target	No timeline target	
80-05-7	Bisphenol A	No quantity target	No timeline target	
100-41-4	Ethylbenzene	No quantity target	No timeline target	
107-21-1	Ethylene glycol	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
101-68-8	Methylenebis(phenylisocyanate)	No quantity target	No timeline target	
91-20-3	Naphthalene	No quantity target	No timeline target	
108-95-2	Phenol (and its salts)	No quantity target	No timeline target	
85-44-9	Phthalic anhydride	No quantity target	No timeline target	
9016-87-9	Polymeric diphenylmethane diisocyanate	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
95-63-6	1,2,4-Trimethylbenzene	No quantity target	No timeline target	
111-76-2	2-Butoxyethanol	No quantity target	No timeline target	
67-64-1	Acetone	No quantity target	No timeline target	
80-05-7	Bisphenol A	No quantity target	No timeline target	
100-41-4	Ethylbenzene	No quantity target	No timeline target	
107-21-1	Ethylene glycol	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
101-68-8	Methylenebis(phenylisocyanate)	No quantity target	No timeline target	
91-20-3	Naphthalene	No quantity target	No timeline target	
108-95-2	Phenol (and its salts)	No quantity target	No timeline target	
85-44-9	Phthalic anhydride	No quantity target	No timeline target	
9016-87-9	Polymeric diphenylmethane diisocyanate	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Additional Actions

Were there any additional actions outside	Describe any additional actions	Provide a public
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CAS RN	Substance Name	the plan taken during the reporting period to reduce the use and/or creation of the substance?	that were taken during the reporting period to achieve the plan's objectives	summary of the description of the additional action taken
95-63-6	1,2,4-Trimethylbenzene	No		
111-76-2	2-Butoxyethanol	No		
67-64-1	Acetone	No		
80-05-7	Bisphenol A	No		
100-41-4	Ethylbenzene	No		
107-21-1	Ethylene glycol	No		
67-56-1	Methanol	No		
101-68-8	Methylenebis(phenylisocyanate)	No		
91-20-3	Naphthalene	No		
108-95-2	Phenol (and its salts)	No		
85-44-9	Phthalic anhydride	No		
9016-87-9	Polymeric diphenylmethane diisocyanate	No		
7664-93-9	Sulphuric acid	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
95-63-6	1,2,4-Trimethylbenzene	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
95-63-6	1,2,4-Trimethylbenzene	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
95-63-6	1,2,4-Trimethylbenzene	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
95-63-6	1,2,4-Trimethylbenzene	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.	
95-63-6	1,2,4-Trimethylbenzene	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.	
95-63-6	1,2,4-Trimethylbenzene	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
95-63-6	1,2,4-Trimethylbenzene	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.	
95-63-6	1,2,4-Trimethylbenzene	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.	
95-63-6	1,2,4-Trimethylbenzene	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
111-76-2	2-Butoxyethanol	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
111-76-2	2-Butoxyethanol	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
111-76-2	2-Butoxyethanol	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
111-76-2	2-Butoxyethanol	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.	
111-76-2	2-Butoxyethanol	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.	
111-76-2	2-Butoxyethanol	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
111-76-2	2-Butoxyethanol	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.	
111-76-2	2-Butoxyethanol	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.	
111-76-2	2-Butoxyethanol	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
67-64-1	Acetone	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-64-1	Acetone	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-64-1	Acetone	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
67-64-1	Acetone	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.	
67-64-1	Acetone	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.	

[illegible]

[illegible]

[illegible]

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
95-63-6	1,2,4-Trimethylbenzene	No		
111-76-2	2-Butoxyethanol	No		
67-64-1	Acetone	No		
80-05-7	Bisphenol A	No		
100-41-4	Ethylbenzene	No		
107-21-1	Ethylene glycol	No		
67-56-1	Methanol	No		
101-68-8	Methylenebis(phenylisocyanate)	No		
91-20-3	Naphthalene	No		
108-95-2	Phenol (and its salts)	No		
85-44-9	Phthalic anhydride	No		
9016-87-9	Polymeric diphenylmethane diisocyanate	No		
7664-93-9	Sulphuric acid	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	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

Mancuso Chemicals Limited

Certifying Official (or authorized delegate)

Dave Senior

Report Submitted by

Dave Senior

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

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 17/05/2017, I, Dave Senior, 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
95-63-6	1,2,4-Trimethylbenzene
111-76-2	2-Butoxyethanol
67-64-1	Acetone
80-05-7	Bisphenol A
100-41-4	Ethylbenzene
107-21-1	Ethylene glycol
67-56-1	Methanol
101-68-8	Methylenebis(phenylisocyanate)
91-20-3	Naphthalene
108-95-2	Phenol (and its salts)
85-44-9	Phthalic anhydride
9016-87-9	Polymeric diphenylmethane diisocyanate
7664-93-9	Sulphuric acid
108-88-3	Toluene
1330-20-7	Xylene (all isomers)

Exit Record Certification Statement

As of 17/05/2017, I Dave Senior, certify that I have read the records created for the purposes of section 11.2 of Ontario Regulation 455/09 (General) made under the Toxics Reductions Act, (2009) in respect of the use and creation of the toxic substances referred to below at NIAGARA FALLS and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN	Substance Name
98-82-8	Cumene

Company Name

Mancuso Chemicals Limited

Highest Ranking Employee

Dave Senior

Report Submitted by

Dave Senior

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
2016	17/05/2017	NIAGARA FALLS	Ontario	Niagara Falls	NPRI,ON MOE TRA,ON MOE

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.



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