

National Pollutant Release Inventory (NPRI) and Partners



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Report Preview

Report Details

Report Year	2018
Report Type:	NPRI, ON MECP TRA, ON MECP
Report Status:	Submitted
Modified Date/Time:	30/05/2019 10:06 AM

Company and Facility Details

Company Name:	Chromaflo Technologies Canada Inc
Business Number:	841993116
Mailing Address:	Address Line 1: 235 Orenda Road City, Province/Territory, Postal Code: Brampton Ontario L6T 1E6 Country: Canada
Facility Name:	Brampton Site
NAICS Code:	325510
NPRI ID:	3430
ON Reg 127/01 ID:	7008
Portable:	No
Physical Address:	Address Line 1: 235 Orenda Road City, Province/Territory, Postal Code: Brampton Ontario L6T 1E6 Country: Canada Latitude: 43.6963 Longitude: -79.7234 UTM Zone: 17 UTM Easting: 602871 UTM Northing: 4838934

Parent Companies

Company Name:	Chromaflo Technologies Corp
Business Number:	341050927
Civic Address:	Address Line 1: City, Province/Territory, Postal Code: None Country: None Latitude: 43.6963 Longitude: -79.7234

Permits

Number or Permit Number:	0411-594LXQ
Government Department, Agency, or Program Name:	Ontario Ministry of Environment

Contacts Details

Contact Type	Technical Contact, Company Coordinator, Person who prepared the report
Name:	Judith Stevens
Position:	Regulatory Affairs Specialist
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Contact Type	Certifying Official, Highest Ranking Employee, Public Contact
Name:	MORT Achaia
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Contact Type	Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Raymond Mahadeo
Position:	Quality Control Manager
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Email:	rmahadeo@chromaflo.com
Mailing Address:	Address Line 1: 235 Orenda Road City, Province/Territory, Postal Code: Brampton Ontario L6T1E6 Country: Canada

General Information

Number of employees:	27
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting of 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:	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):	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, Sat
Usual Number of Operating Hours per day:	16
Usual Daily Start Time (24h) (hh:mm):	07:00

Shutdown Periods:

From 2018-12-24 To 2018-12-31

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
111-77-3	2-(2-Methoxyethoxy)ethanol	0.0401	N/A	0.3349	N/A	tonnes
111-76-2	2-Butoxyethanol	0.2603	N/A	0.2696	0.4431	tonnes
67-64-1	Acetone	0.0103	N/A	N/A	N/A	tonnes
NA - 04	Chromium (and its compounds)	0.0502	N/A	0.0348	0.1856	tonnes
NA - 05	Cobalt (and its compounds)	1.2038	N/A	8.4511	82.3400	kg
100-41-4	Ethylbenzene	0.5102	N/A	0.1130	8.2975	tonnes
107-21-1	Ethylene glycol	0.1145	N/A	0.9558	N/A	tonnes
NA - 20	Nonylphenol and its ethoxylates	124.4200	N/A	3.9299	0.0237	kg
NA - M16	Volatile Organic Compounds (VOCs)	21.8768	21.8768	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	1.9174	N/A	0.4506	32.9988	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MECP TRA	ON MECP Reg 127/01	First report for this substance to the ON MECP TRA
111-77-3	2-(2-Methoxyethoxy)ethanol	Yes	Yes		No
111-76-2	2-Butoxyethanol	Yes	Yes		No
67-64-1	Acetone		Yes	Yes	Yes
NA - 04	Chromium (and its compounds)	Yes	Yes		No
NA - 05	Cobalt (and its compounds)	Yes	Yes		Yes
100-41-4	Ethylbenzene	Yes	Yes		Yes
107-21-1	Ethylene glycol	Yes	Yes		No
NA - 20	Nonylphenol and its ethoxylates	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No
1330-20-7	Xylene (all isomers)	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Yes	No	No
111-76-2	2-Butoxyethanol	Yes	No	No
NA - 04	Chromium (and its compounds)	Yes	No	No
NA - 05	Cobalt (and its compounds)	Yes	No	No
100-41-4	Ethylbenzene	Yes	Yes	No
107-21-1	Ethylene glycol	Yes	No	No
NA - 20	Nonylphenol and its ethoxylates	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
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
111-77-3	2-(2-Methoxyethoxy)ethanol	Yes	No	No
111-76-2	2-Butoxyethanol	Yes	No	Yes
NA - 04	Chromium (and its compounds)	Yes	No	Yes
NA - 05	Cobalt (and its compounds)	Yes	No	Yes
100-41-4	Ethylbenzene	Yes	No	Yes
107-21-1	Ethylene glycol	Yes	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
NA - 20	Nonylphenol and its ethoxylates	Yes	No	Yes
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)	Yes	No	Yes

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
111-77-3	2-(2-Methoxyethoxy)ethanol		As a formulation component	
111-76-2	2-Butoxyethanol		As a formulation component	
NA - 04	Chromium (and its compounds)		As a formulation component	
NA - 05	Cobalt (and its compounds)		As a formulation component	
100-41-4	Ethylbenzene		As a formulation component	
107-21-1	Ethylene glycol		As a formulation component	
NA - 20	Nonylphenol and its ethoxylates		As a formulation component	Ancillary/other use
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)		As a formulation component	Ancillary/other use

Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment
NA - 19	Hexavalent chromium (and its compounds)	Removed	Discontinued substance use as of Jan 1, 2017.
NA - 08	Lead (and its compounds)	Removed	Discontinued substance use as of Jan 1, 2017.

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
111-77-3	2-(2-Methoxyethoxy)ethanol	Use	19.5154 tonnes	Yes
111-77-3	2-(2-Methoxyethoxy)ethanol	Creation	0.00 tonnes	Yes
111-77-3	2-(2-Methoxyethoxy)ethanol	Contained in Product	18.3787 tonnes	Yes
111-76-2	2-Butoxyethanol	Use	21.0623 tonnes	Yes
111-76-2	2-Butoxyethanol	Creation	0.00 tonnes	Yes
111-76-2	2-Butoxyethanol	Contained in Product	19.9582 tonnes	Yes
67-64-1	Acetone	Use	0.3340 tonnes	Yes
67-64-1	Acetone	Creation	0.00 tonnes	No
67-64-1	Acetone	Contained in Product		
NA - 04	Chromium (and its compounds)	Use	9.5948 tonnes	Yes
NA - 04	Chromium (and its compounds)	Creation	0.00 tonnes	Yes
NA - 04	Chromium (and its compounds)	Contained in Product	9.8480 tonnes	Yes
NA - 05	Cobalt (and its compounds)	Use	5599.988 kg	Yes
NA - 05	Cobalt (and its compounds)	Creation	0.00 kg	No
NA - 05	Cobalt (and its compounds)	Contained in Product	4453.296 kg	Yes
100-41-4	Ethylbenzene	Use	14.1322 tonnes	Yes
100-41-4	Ethylbenzene	Creation	0.00 tonnes	No
100-41-4	Ethylbenzene	Contained in Product	1.8865 tonnes	Yes
107-21-1	Ethylene glycol	Use	63.9607 tonnes	Yes
107-21-1	Ethylene glycol	Creation	0.00 tonnes	Yes
107-21-1	Ethylene glycol	Contained in Product	52.444 tonnes	Yes
NA - 20	Nonylphenol and its ethoxylates	Use	34344.228 kg	Yes
NA - 20	Nonylphenol and its ethoxylates	Creation	0.00 kg	No
NA - 20	Nonylphenol and its ethoxylates	Contained in Product	36498.685 kg	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Use	597.4028 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0.00 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		
1330-20-7	Xylene (all isomers)	Use	53.6234 tonnes	Yes
1330-20-7	Xylene (all isomers)	Creation	0.00 tonnes	Yes
1330-20-7	Xylene (all isomers)	Contained in Product	10.8592 tonnes	Yes

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
64742-48-9	Hydrotreated heavy naphtha	Use	48.9403 tonnes

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
64742-47-8	Hydrotreated light distillate	Use	49.6944 tonnes
108-65-6	Propylene glycol methyl ether acetate	Use	445.1186 tonnes
1330-20-7	Xylene (all isomers)	Use	53.6495 tonnes
1330-20-7	Xylene (all isomers)	Creation	0.00 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	597.4028 tonnes
Creation	0.00 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	Reason for the significant process change
111-77-3	2-(2-Methoxyethoxy)ethanol					No	
111-76-2	2-Butoxyethanol					No	
67-64-1	Acetone					No	
NA - 04	Chromium (and its compounds)					No	
NA - 05	Cobalt (and its compounds)					No	
100-41-4	Ethylbenzene					No	
107-21-1	Ethylene glycol					No	
NA - 20	Nonylphenol and its ethoxylates					No	
NA - M16	Volatile Organic Compounds (VOCs)					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
111-77-3	2-(2-Methoxyethoxy)ethanol	Stack or Point Releases	C - Mass Balance		0.0401 tonnes
111-76-2	2-Butoxyethanol	Stack or Point Releases	C - Mass Balance		0.2603 tonnes
67-64-1	Acetone	Stack or Point Releases	C - Mass Balance		0.0103 tonnes
NA - 04	Chromium (and its compounds)	Stack or Point Releases	C - Mass Balance		0.0502 tonnes
NA - 05	Cobalt (and its compounds)	Stack or Point Releases	C - Mass Balance		1.2038 kg
107-21-1	Ethylene glycol	Stack or Point Releases	C - Mass Balance		0.1145 tonnes
NA - 20	Nonylphenol and its ethoxylates	Stack or Point Releases	C - Mass Balance		124.42 kg
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	C - Mass Balance		21.8768 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		21.8768 tonnes
1330-20-7	Xylene (all isomers)	Stack or Point Releases	C - Mass Balance		1.9174 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
111-77-3	2-(2-Methoxyethoxy)ethanol	0.0401 tonnes
111-76-2	2-Butoxyethanol	0.2603 tonnes
67-64-1	Acetone	0.0103 tonnes
NA - 04	Chromium (and its compounds)	0.0502 tonnes
NA - 05	Cobalt (and its compounds)	1.2038 kg
107-21-1	Ethylene glycol	0.1145 tonnes
NA - 20	Nonylphenol and its ethoxylates	124.42 kg
NA - M16	Volatile Organic Compounds (VOCs)	21.8768 tonnes
1330-20-7	Xylene (all isomers)	1.9174 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	64742-48-9	Hydrotreated heavy naphtha	1.9148 tonnes
Other Sources - Speciated VOCs	64742-47-8	Hydrotreated light distillate	1.9529 tonnes
Other Sources - Speciated VOCs	108-65-6	Propylene glycol methyl ether acetate	16.0906 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	1.9185 tonnes

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
100-41-4	Ethylbenzene	Total Quantity Released	C - Mass Balance		0.5102 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
111-77-3	2-(2-Methoxyethoxy)ethanol	0.0401 tonnes
111-76-2	2-Butoxyethanol	0.2603 tonnes
NA - 04	Chromium (and its compounds)	0.0502 tonnes
NA - 05	Cobalt (and its compounds)	1.2038 kg
107-21-1	Ethylene glycol	0.1145 tonnes
NA - 20	Nonylphenol and its ethoxylates	124.42 kg
1330-20-7	Xylene (all isomers)	1.9174 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
111-77-3	2-(2-Methoxyethoxy)ethanol	25.48	27.98	22.77	23.77
111-76-2	2-Butoxyethanol	33.95	23.06	19.83	23.16
NA - 04	Chromium (and its compounds)	43.19	19.36	13.44	24.01
NA - 05	Cobalt (and its compounds)	40.72	29.70	14.62	14.96
100-41-4	Ethylbenzene	32.92	30.48	22.59	14.01
107-21-1	Ethylene glycol	38.11	21.53	22.74	17.62
NA - 20	Nonylphenol and its ethoxylates	26.43	28.95	23.07	21.55
1330-20-7	Xylene (all isomers)	31.26	30.57	21.91	16.26

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)	8.61	6.99	10.47	9.01	8.20	9.40	7.90	9.73	7.78	8.06	8.15	5.70

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
100-41-4	Ethylbenzene	Increase in production levels Changes in process and/or raw/produced/processed materials	
107-21-1	Ethylene glycol	Increase in production levels Changes in process and/or raw/produced/processed materials	
111-76-2	2-Butoxyethanol	Increase in production levels Changes in process and/or raw/produced/processed materials	
111-77-3	2-(2-Methoxyethoxy)ethanol	Increase in production levels Changes in process and/or raw/produced/processed materials	
1330-20-7	Xylene (all isomers)	Decrease in production levels Pollution prevention activities (Provide details in the Pollution Prevention section of this report.) Changes in process and/or raw/produced/processed materials	Metering of wash solvent and adjusting wash solvent mix resulted in lower Xylene usage
NA - 04	Chromium (and its compounds)	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Increase in production levels Changes in process and/or raw/produced/processed materials	
NA - 20	Nonylphenol and its ethoxylates	Increase in production levels Pollution prevention activities (Provide details in the Pollution Prevention section of this report.) Changes in process and/or raw/produced/processed materials	Reformulation of products to remove NPE from water-based products
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels Changes in process and/or raw/produced/processed materials	

Disposals - Off-site Disposal (excluding Tailings and Waste Rock)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
111-76-2	2-Butoxyethanol	Landfill	C - Mass Balance		0.0058 tonnes
NA - 04	Chromium (and its compounds)	Landfill	C - Mass Balance		0.0348 tonnes
NA - 05	Cobalt (and its compounds)	Landfill	C - Mass Balance		8.443 kg
100-41-4	Ethylbenzene	Landfill	C - Mass Balance		0.1130 tonnes
1330-20-7	Xylene (all isomers)	Landfill	C - Mass Balance		0.4506 tonnes

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

CAS RN	Substance Name	Total - Off-site Disposals
111-76-2	2-Butoxyethanol	0.0058 tonnes
NA - 04	Chromium (and its compounds)	0.0348 tonnes
NA - 05	Cobalt (and its compounds)	8.443 kg
100-41-4	Ethylbenzene	0.1130 tonnes
1330-20-7	Xylene (all isomers)	0.4506 tonnes

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

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
100-41-4	Ethylbenzene	Landfill	Ssonix Products	20 Keefer Street, St. Catherines, ON, Canada	0.1130 tonnes
111-76-2	2-Butoxyethanol	Landfill	Ssonix Products	20 Keefer Street, St. Catherines, ON, Canada	0.0058 tonnes
1330-20-7	Xylene (all isomers)	Landfill	Ssonix Products	20 Keefer Street, St. Catherines, ON, Canada	0.4506 tonnes
NA - 04	Chromium (and its compounds)	Landfill	WasteCo	150 Orenda Road, Brampton, ON, Canada	0.0348 tonnes
NA - 05	Cobalt (and its compounds)	Landfill	WasteCo	150 Orenda Road, Brampton, ON, Canada	8.443 kg

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

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
111-77-3	2-(2-Methoxyethoxy)ethanol	Municipal Sewage Treatment Plant	C - Mass Balance		0.3349 tonnes
111-76-2	2-Butoxyethanol	Municipal Sewage Treatment Plant	C - Mass Balance		0.2638 tonnes
NA - 04	Chromium (and its compounds)	Municipal Sewage Treatment Plant	C - Mass Balance		0 tonnes
NA - 05	Cobalt (and its compounds)	Municipal Sewage Treatment Plant	C - Mass Balance		0.0081 kg
107-21-1	Ethylene glycol	Municipal Sewage Treatment Plant	C - Mass Balance		0.9558 tonnes
NA - 20	Nonylphenol and its ethoxylates	Municipal Sewage Treatment Plant	C - Mass Balance		3.9299 kg

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

CAS RN	Substance Name	Total - Treatment Prior to Final Disposal
111-77-3	2-(2-Methoxyethoxy)ethanol	0.3349 tonnes
111-76-2	2-Butoxyethanol	0.2638 tonnes
NA - 04	Chromium (and its compounds)	0 tonnes
NA - 05	Cobalt (and its compounds)	0.0081 kg
107-21-1	Ethylene glycol	0.9558 tonnes
NA - 20	Nonylphenol and its ethoxylates	3.9299 kg

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

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
107-21-1	Ethylene glycol	Municipal Sewage Treatment Plant	Region of Peel Sanitary Sewage System	10 Peel Centre Dr., Brampton, ON, Canada	0.9558 tonnes
111-76-2	2-Butoxyethanol	Municipal Sewage Treatment Plant	Region of Peel Sanitary Sewage System	10 Peel Centre Dr., Brampton, ON, Canada	0.2638 tonnes
111-77-3	2-(2-Methoxyethoxy)ethanol	Municipal Sewage Treatment Plant	Region of Peel Sanitary Sewage System	10 Peel Centre Dr., Brampton, ON, Canada	0.3349 tonnes
NA - 04	Chromium (and its compounds)	Municipal Sewage Treatment Plant	Region of Peel Sanitary Sewage System	10 Peel Centre Dr., Brampton, ON, Canada	0.0000 tonnes
NA - 05	Cobalt (and its compounds)	Municipal Sewage Treatment Plant	Region of Peel Sanitary Sewage System	10 Peel Centre Dr., Brampton, ON, Canada	0.0081 kg
NA - 20	Nonylphenol and its ethoxylates	Municipal Sewage Treatment Plant	Region of Peel Sanitary Sewage System	10 Peel Centre Dr., Brampton, ON, Canada	3.9299 kg

Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
111-77-3	2-(2-Methoxyethoxy)ethanol	0.3349 tonnes
111-76-2	2-Butoxyethanol	0.2696 tonnes
NA - 04	Chromium (and its compounds)	0.0348 tonnes
NA - 05	Cobalt (and its compounds)	8.4511 kg
100-41-4	Ethylbenzene	0.1130 tonnes
107-21-1	Ethylene glycol	0.9558 tonnes
NA - 20	Nonylphenol and its ethoxylates	3.9299 kg
1330-20-7	Xylene (all isomers)	0.4506 tonnes

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
100-41-4	Ethylbenzene	Production residues	Increase in production levels Changes in process and/or raw/produced/processed materials	
107-21-1	Ethylene glycol	Other	Decrease in production levels	
111-76-2	2-Butoxyethanol	Production residues Other	Increase in production levels Changes in process and/or raw/produced/processed materials	
111-77-3	2-(2-Methoxyethoxy)ethanol	Production residues	Increase in production levels Changes in process and/or raw/produced/processed materials	
1330-20-7	Xylene (all isomers)	Production residues	Changes in process and/or raw/produced/processed materials Changes in composition of materials released/discharged of/transferred	Metering of wash solvent and adjusting wash solvent mix resulted in lower Xylene usage
NA - 04	Chromium (and its compounds)	Production residues Other	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Production residues	Increase in production levels Activities/events of a non-annual nature (e.g. a spill, tailings pond breach, or fire). Describe the activity/event in the comment field Other (specify in comment field)	Increase in production levels in Brampton's water based manufacturing resulted in the increase.
NA - 20	Nonylphenol and its ethoxylates	Production residues Other	Increase in production levels Pollution prevention activities (Provide details in the Pollution Prevention section of this report.) Changes in process and/or raw/produced/processed materials	Reformulation of products to remove NPE from water-based products

Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
111-76-2	2-Butoxyethanol	Recovery of Solvents	C - Mass Balance		0.4431 tonnes
NA - 04	Chromium (and its compounds)	Recovery of Solvents	C - Mass Balance		0.1856 tonnes
NA - 05	Cobalt (and its compounds)	Recovery of Solvents	C - Mass Balance		82.340 kg
100-41-4	Ethylbenzene	Recovery of Solvents	C - Mass Balance		8.2975 tonnes
NA - 20	Nonylphenol and its ethoxylates	Recovery of Solvents	C - Mass Balance		0.0237 kg
1330-20-7	Xylene (all isomers)	Recovery of Solvents	C - Mass Balance		32.9988 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
111-76-2	2-Butoxyethanol	0.4431 tonnes
NA - 04	Chromium (and its compounds)	0.1856 tonnes
NA - 05	Cobalt (and its compounds)	82.340 kg
100-41-4	Ethylbenzene	8.2975 tonnes
NA - 20	Nonylphenol and its ethoxylates	0.0237 kg
1330-20-7	Xylene (all isomers)	32.9988 tonnes

Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
100-41-4	Ethylbenzene	Recovery of Solvents	Ssonix Products	20 Keefer Street, St. Catherines, ON, Canada	
100-41-4	Ethylbenzene	Recovery of Solvents	Fielding Chemical Technologies Inc.	3549 Mavis Road, Mississauga, ON, Canada	8.2975 tonnes
100-41-4	Ethylbenzene	Recovery of Solvents	Photech Environmental Solutions Inc.	600 Read Rd., St. Catherines, ON, Canada	
100-41-4	Ethylbenzene	Recovery of Solvents	Quantex Chemical Treatment	309 Cherry Street, Toronto, ON, Canada	
111-76-2	2-Butoxyethanol	Recovery of Solvents	Ssonix Products	20 Keefer Street, St. Catherines, ON, Canada	
111-76-2	2-Butoxyethanol	Recovery of Solvents	Fielding Chemical Technologies Inc.	3549 Mavis Road, Mississauga, ON, Canada	0.4431 tonnes
111-76-2	2-Butoxyethanol	Recovery of Solvents	Quantex Chemical Treatment	309 Cherry Street, Toronto, ON, Canada	
111-76-2	2-Butoxyethanol	Recovery of Solvents	Photech Environmental Solutions Inc.	600 Read Rd., St. Catherines, ON, Canada	
111-76-2	2-Butoxyethanol	Recovery of Solvents	Region of Peel Sanitary Sewage System	10 Peel Centre Dr., Brampton, ON, Canada	
1330-20-7	Xylene (all isomers)	Recovery of Solvents	Fielding Chemical Technologies Inc.	3549 Mavis Road, Mississauga, ON, Canada	32.9988 tonnes

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
1330-20-7	Xylene (all isomers)	Recovery of Solvents	Ssonix Products	20 Keefer Street, St. Catherines, ON, Canada	
1330-20-7	Xylene (all isomers)	Recovery of Solvents	Photech Environmental Solutions Inc.	600 Read Rd., St. Catherines, ON, Canada	
1330-20-7	Xylene (all isomers)	Recovery of Solvents	Quantex Chemical Treatment	309 Cherry Street, Toronto, ON, Canada	
NA - 04	Chromium (and its compounds)	Recovery of Solvents	Fielding Chemical Technologies Inc.	3549 Mavis Road, Mississauga, ON, Canada	0.1856 tonnes
NA - 05	Cobalt (and its compounds)	Recovery of Solvents	Fielding Chemical Technologies Inc.	3549 Mavis Road, Mississauga, ON, Canada	82.340 kg
NA - 20	Nonylphenol and its ethoxylates	Recovery of Solvents	Fielding Chemical Technologies Inc.	3549 Mavis Road, Mississauga, ON, Canada	0.0237 kg
NA - 20	Nonylphenol and its ethoxylates	Recovery of Solvents	WasteCo	150 Orenda Road, Brampton, ON, Canada	
NA - 20	Nonylphenol and its ethoxylates	Recovery of Solvents	Photech Environmental Solutions Inc.	600 Read Rd., St. Catherines, ON, Canada	
NA - 20	Nonylphenol and its ethoxylates	Recovery of Solvents	Quantex Chemical Treatment	309 Cherry Street, Toronto, ON, Canada	

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	Other	Increase in production levels	
107-21-1	Ethylene glycol		Changes in composition of materials released/disposed of/transferred	Not Applicable to this substance process
111-76-2	2-Butoxyethanol	Production Residues Other	Increase in production levels Changes in process and/or raw/produced/processed materials	
111-77-3	2-(2-Methoxyethoxy)ethanol		Increase in production levels	
1330-20-7	Xylene (all isomers)	Production Residues Other	Increase in production levels Pollution prevention activities (Provide details in the Pollution Prevention section of this report.)	Metering of wash solvent and adjusting wash solvent mix resulted in lower Xylene usage
NA - 04	Chromium (and its compounds)	Production Residues	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Production Residues	Other (specify in comment field)	Increase in production levels in Brampton's water based manufacturing resulted in the decreas.
NA - 20	Nonylphenol and its ethoxylates	Production Residues	Changes in process and/or raw/produced/processed materials	

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
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Enters the facility (Use)	19.5154 tonnes	18.3041 tonnes	2017	1.2113	6.62
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Creation	0.00 tonnes	0.0 tonnes	2017	0.00	
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Contained in Product	18.3787 tonnes	13.4207 tonnes	2017	4.9580	36.94
111-76-2	2-Butoxyethanol	No	Enters the facility (Use)	21.0623 tonnes	26.5148 tonnes	2017	-5.4525	-20.56
111-76-2	2-Butoxyethanol	No	Creation	0.00 tonnes	0 tonnes	2017	0.00	
111-76-2	2-Butoxyethanol	No	Contained in Product	19.9582 tonnes	25.0951 tonnes	2017	-5.1369	-20.47
NA - 04	Chromium (and its compounds)	No	Enters the facility (Use)	9.5948 tonnes	5.6636 tonnes	2017	3.9312	69.41
NA - 04	Chromium (and its compounds)	No	Creation	0.00 tonnes	0.00 tonnes	2017	0.00	
NA - 04	Chromium (and its compounds)	No	Contained in Product	9.8480 tonnes	4.8304 tonnes	2017	5.0176	103.88
107-21-1	Ethylene glycol	No	Enters the facility (Use)	63.9607 tonnes	48.0253 tonnes	2017	15.9354	33.18
107-21-1	Ethylene glycol	No	Creation	0.00 tonnes	0 tonnes	2017	0.00	
107-21-1	Ethylene glycol	No	Contained in Product	52.444 tonnes	47.9133 tonnes	2017	4.5307	9.46
64742-47-8	Hydrotreated light distillate	Yes	Enters the facility (Use)	49.6944 tonnes	58.7667 tonnes	2017	-9.0723	-15.44
NA - 20	Nonylphenol and its ethoxylates	No	Enters the facility (Use)	34344.228 kg	31742.591 kg	2017	2601.637	8.20
NA - 20	Nonylphenol and its ethoxylates	No	Creation	0.00 kg	0.00 kg	2017	0.00	
NA - 20	Nonylphenol and its ethoxylates	No	Contained in Product	36498.685 kg	30506.640 kg	2017	5992.045	19.64

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
108-65-6	Propylene glycol methyl ether acetate	Yes	Enters the facility (Use)	445.1186 tonnes	417.2133 tonnes	2017	27.9053	6.69
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	53.6234 tonnes	73.8891 tonnes	2017	-20.2657	-27.43
1330-20-7	Xylene (all isomers)	No	Creation	0.00 tonnes	0 tonnes	2017	0.00	
1330-20-7	Xylene (all isomers)	No	Contained in Product	10.8592 tonnes	13.4207 tonnes	2017	-2.5615	-19.09
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	53.6495 tonnes	73.9213 tonnes	2017	-20.2718	-27.42
1330-20-7	Xylene (all isomers)	Yes	Creation	0.00 tonnes	0.00 tonnes	2017	0.00	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
111-77-3	2-(2-Methoxyethoxy)ethanol	Increase in production levels	
111-76-2	2-Butoxyethanol	Increase in production levels	
NA - 04	Chromium (and its compounds)	Increase in production levels	
107-21-1	Ethylene glycol	Increase in production levels	
NA - 20	Nonylphenol and its ethoxylates	Decrease in production levels Implementation of actions outside of toxics reduction plan	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	
1330-20-7	Xylene (all isomers)	Increase in production levels Implementation of toxics reduction option(s)	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total Releases to Air	0.0401 tonnes	0.0447 tonnes	2017	-0.0046	-10.29
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total Releases to All Media	0 tonnes	0.0319 tonnes	2015	-0.0319	-100
111-76-2	2-Butoxyethanol	No	Total Releases to Air	0.2603 tonnes	0.2912 tonnes	2017	-0.0309	-10.61
111-76-2	2-Butoxyethanol	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
111-76-2	2-Butoxyethanol	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
111-76-2	2-Butoxyethanol	No	Total Releases to All Media	0 tonnes	0.0319 tonnes	2015	-0.0319	-100
NA - 04	Chromium (and its compounds)	No	Total Releases to Air	0.0502 tonnes	0.0065 tonnes	2017	0.0437	672.31
NA - 04	Chromium (and its compounds)	No	Total Releases to Water	0 tonnes	0.00 tonnes	2017	0.00	
NA - 04	Chromium (and its compounds)	No	Total Releases to Land	0 tonnes	0.00 tonnes	2017	0.00	
NA - 04	Chromium (and its compounds)	No	Total Releases to All Media	0 tonnes				
107-21-1	Ethylene glycol	No	Total Releases to Air	0.1145 tonnes	0.1150 tonnes	2017	-0.0005	-0.43
107-21-1	Ethylene glycol	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
107-21-1	Ethylene glycol	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
107-21-1	Ethylene glycol	No	Total Releases to All Media	0 tonnes	0.1641 tonnes	2015	-0.1641	-100
64742-48-9	Hydrotreated heavy naphtha	Yes	Total Releases to Air	1.9148 tonnes	2.0610 tonnes	2017	-0.1462	-7.09
64742-47-8	Hydrotreated light distillate	Yes	Total Releases to Air	1.9529 tonnes	2.5741 tonnes	2017	-0.6212	-24.13
NA - 20	Nonylphenol and its ethoxylates	No	Total Releases to Air	124.42 kg	372.5821 kg	2017	-248.1621	-66.61
NA - 20	Nonylphenol and its ethoxylates	No	Total Releases to Water	0 kg	0 kg	2017	0	
NA - 20	Nonylphenol and its ethoxylates	No	Total Releases to Land	0 kg	0 kg	2017	0	
NA - 20	Nonylphenol and its ethoxylates	No	Total Releases to All Media	0 kg	0 kg	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
108-65-6	Propylene glycol methyl ether acetate	Yes	Total Releases to Air	16.0906 tonnes	17.6187 tonnes	2017	-1.5281	-8.67
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	1.9174 tonnes	3.0324 tonnes	2017	-1.1150	-36.77
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to All Media	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	Yes	Total Releases to Air	1.9185 tonnes	3.0327 tonnes	2017	-1.1142	-36.74

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
111-77-3	2-(2-Methoxyethoxy)ethanol	No reasons - quantities approximately the same	
111-76-2	2-Butoxyethanol	Increase in production levels	
NA - 04	Chromium (and its compounds)	Increase in production levels	
107-21-1	Ethylene glycol	No reasons - quantities approximately the same	
NA - 20	Nonylphenol and its ethoxylates	Decrease in production levels Implementation of actions outside of toxics reduction plan	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	
1330-20-7	Xylene (all isomers)	Increase in production levels Implementation of toxics reduction option(s)	

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
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total Off-site Disposals	0 tonnes	0 tonnes	2017	0	
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total Off-site transfer for treatment Prior to Final Disposal	0.3349 tonnes	0.3353 tonnes	2017	-0.0004	-0.12
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
111-77-3	2-(2-Methoxyethoxy)ethanol	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
111-76-2	2-Butoxyethanol	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
111-76-2	2-Butoxyethanol	No	Total Off-site Disposals	0.0058 tonnes	0.0018 tonnes	2017	0.0040	222.22
111-76-2	2-Butoxyethanol	No	Total Off-site transfer for treatment Prior to Final Disposal	0.2638 tonnes	0.2326 tonnes	2017	0.0312	13.41
111-76-2	2-Butoxyethanol	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
111-76-2	2-Butoxyethanol	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 04	Chromium (and its compounds)	No	Total On-site Disposals	0 tonnes	0.00 tonnes	2017	0.00	
NA - 04	Chromium (and its compounds)	No	Total Off-site Disposals	0.0348 tonnes	0.0196 tonnes	2017	0.0152	77.55
NA - 04	Chromium (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0.00 tonnes	2017	0.00	
NA - 04	Chromium (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0.00 tonnes	2017	0.00	
NA - 04	Chromium (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0.00 tonnes	2017	0.00	
107-21-1	Ethylene glycol	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
107-21-1	Ethylene glycol	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
107-21-1	Ethylene glycol	No	Total Off-site transfer for treatment Prior to Final Disposal	0.9558 tonnes	0.8628 tonnes	2017	0.0930	10.78
107-21-1	Ethylene glycol	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
107-21-1	Ethylene glycol	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
NA - 20	Nonylphenol and its ethoxylates	No	Total On-site Disposals	0 kg	0.00 kg	2017	0.00	
NA - 20	Nonylphenol and its ethoxylates	No	Total Off-site Disposals	0 kg	0.00 kg	2017	0.00	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 20	Nonylphenol and its ethoxylates	No	Total Off-site transfer for treatment Prior to Final Disposal	3.9299 kg	7.1257 kg	2017	-3.1958	-44.85
NA - 20	Nonylphenol and its ethoxylates	No	Total On-site Disposal of Tailings and Waste Rock	0 kg	0.00 kg	2017	0.00	
NA - 20	Nonylphenol and its ethoxylates	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0.00 kg	2017	0.00	
1330-20-7	Xylene (all isomers)	No	Total On-site Disposals	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	No	Total Off-site Disposals	0.4506 tonnes	0.0857 tonnes	2017	0.3649	425.79
1330-20-7	Xylene (all isomers)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0.0001 tonnes	2017	-0.0001	-100
1330-20-7	Xylene (all isomers)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2017	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
111-77-3	2-(2-Methoxyethoxy)ethanol	No reasons - quantities approximately the same	
111-76-2	2-Butoxyethanol	Increase in production levels	
NA - 04	Chromium (and its compounds)	Increase in production levels	
107-21-1	Ethylene glycol	No reasons - quantities approximately the same Increase in production levels	
NA - 20	Nonylphenol and its ethoxylates	Decrease in production levels Implementation of actions outside of toxics reduction plan	
1330-20-7	Xylene (all isomers)	No reasons - quantities approximately the same Implementation of toxics reduction option(s)	

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
111-76-2	2-Butoxyethanol	No	Total off-site Transfers for Recycling	0.4431 tonnes	1.0727 tonnes	2017	-0.6296	-58.69
NA - 04	Chromium (and its compounds)	No	Total off-site Transfers for Recycling	0.1856 tonnes	0.0725 tonnes	2017	0.1131	156.00
NA - 20	Nonylphenol and its ethoxylates	No	Total off-site Transfers for Recycling	0.0237 kg	0.1440 kg	2017	-0.1203	-83.54
1330-20-7	Xylene (all isomers)	No	Total off-site Transfers for Recycling	32.9988 tonnes	50.7356 tonnes	2017	-17.7368	-34.96

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
111-76-2	2-Butoxyethanol	Increase in production levels	
NA - 04	Chromium (and its compounds)	Increase in production levels	
NA - 20	Nonylphenol and its ethoxylates	Implementation of toxics reduction option(s) Other	Reformulation of products to remove NPE from water-based products
1330-20-7	Xylene (all isomers)	Increase in production levels Implementation of toxics reduction option(s)	

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)
Water conservation

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).

Chromaflor Technologies ceased production of lead and Chromium (IV) based colorants in the third quarter of 2016 Chromaflor is in the process of reformulating NPE out of all water-based products.

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
111-77-3	2-(2-Methoxyethoxy)ethanol	Chromaflco Technologies has developed and is marketing low VOC / Glycol Ether DM-free products to our current customer base. However, conversion of customers to the low VOC / Glycol Ether DM-free product lines are customer driven.
111-76-2	2-Butoxyethanol	Chromaflco Technologies has developed and is marketing low VOC / 2-Butoxyethanol-free products to our current customer base. However, conversion of customers to the low VOC / 2-Butoxyethanol-free product lines are customer driven.
NA - 04	Chromium (and its compounds)	Chromium and its compound has specific characteristics that are uniquely beneficial to the product, and is used to meet customer specifications. Therefore, Chromaflco does not foresee a reduction in use.
107-21-1	Ethylene glycol	Chromaflco is working to develop a tiered customer focused approach which will allow us to work closely with our end users to find the best Ethylene Glycol free product for our customer's product needs. Since 2010 Chromaflco Technologies Canada Inc. successfully converted a major customer to an Ethylene Glycol-Free product line, reducing EG consumption by 44.81%.
64742-48-9	Hydrotreated heavy naphtha	The use of Petroleum Distillate, Hydrotreated, Heavy is dictated by customer and product performance specifications. Therefore, Chromaflco does not foresee a reduction in Petroleum Distillate, Hydrotreated, Heavy use.
64742-47-8	Hydrotreated light distillate	Chromaflco intends to continue using as little hydrotreated light distillate as possible, through the continuation of existing programs and procedures.
NA - 20	Nonylphenol and its ethoxylates	Chromaflco is working to develop a tiered customer focused approach which will allow us to work closely with our end users to find the best (NPE) free products for our customer's product needs. Since 2010 Chromaflco Technologies Canada Inc. successfully converted a major customer to an NPE-Free product line, reducing NPE consumption by 17%.
108-65-6	Propylene glycol methyl ether acetate	The company intends to reduce the use of this toxic substance at the facility in its cleaning process by 7%, or 0.4% of facility wide use.
1330-20-7	Xylene (all isomers)	Chromaflco will strive to reduce the use of Xylene at the facility during its equipment cleaning process.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
111-77-3	2-(2-Methoxyethoxy)ethanol	No quantity target	No timeline target	Actual reductions achieved will be highly dependent on customer acceptance of Glycol Ether DM free products.
111-76-2	2-Butoxyethanol	No quantity target	No timeline target	
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
107-21-1	Ethylene glycol	No quantity target	No timeline target	
64742-48-9	Hydrotreated heavy naphtha	No quantity target	No timeline target	
64742-47-8	Hydrotreated light distillate	No quantity target	No timeline target	
NA - 20	Nonylphenol and its ethoxylates	No quantity target	No timeline target	
108-65-6	Propylene glycol methyl ether acetate	0.77 tonnes	1	The company intends to reduce the use of this toxic substance at the facility in its cleaning process by 7%, or 0.4% of facility wide use.
1330-20-7	Xylene (all isomers)	1.79 tonnes	1.5	Currently it is the operators discretion as to how much cleaning solvent to use for washing equipment. Amounts currently used are not calculated other than on an overall inventory basis. Analyzing use amounts at the specific equipment stage, along with conducting contamination tests, should lead to reductions in use for cleaning.

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
111-77-3	2-(2-Methoxyethoxy)ethanol	No quantity target	No timeline target	
111-76-2	2-Butoxyethanol	No quantity target	No timeline target	Actual reductions achieved will be highly dependent on customer acceptance of 2-Butoxyethanol free products.
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
107-21-1	Ethylene glycol	No quantity target	No timeline target	
64742-48-9	Hydrotreated heavy naphtha	No quantity target	No timeline target	
64742-47-8	Hydrotreated light distillate	No quantity target	No timeline target	
NA - 20	Nonylphenol and its ethoxylates	No quantity target	No timeline target	
108-65-6	Propylene glycol methyl ether acetate	No quantity target	No timeline target	This facility does not create or destroy PMA, therefore this plan does not address reducing its creation, or destruction.
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

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
				Unable to		

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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	Unable to reformulate in 2018 due to limited resources.	reformulate in 2018 due to limited resources.	No actions taken in 2018.	No actions taken in 2018.
111-76-2	2-Butoxyethanol	Modified design or composition	Unable to reformulate in 2018 due to limited resources.	Unable to reformulate in 2018 due to limited resources.	No action taken in 2018	No action taken in 2018
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	Training related to toxics substance reduction	Training related to toxics substance reduction	Training related to toxics substance reduction	Training related to toxics substance reduction
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	Reduced use of xylene by 33.4%	Reduced use of xylene by 33.4%	Reduced use of xylene by 33.4%	Reduced use of xylene by 33.4%

CAS RN	Substance Name	Activity	Will the timelines in the current version of the plan will be met	Comments:
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	No	
111-76-2	2-Butoxyethanol	Modified design or composition	No	
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	No	
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	Yes	

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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-77-3	2-(2-Methoxyethoxy)ethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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
111-76-2	2-Butoxyethanol	Modified design or composition	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

Progress on TRA Plan - Reductions due to Options Implemented - Good operator practice or training

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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

CAS RN	Substance Name Activity	Reductions due to Options Implemented	Quantity	
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
108-65-6	Propylene glycol methyl ether acetate	Training related to toxics substance reduction	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
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	18.593 tonnes
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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:	1.1150 tonnes
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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
1330-20-7	Xylene (all isomers)	Improved maintenance scheduling, record keeping or procedures	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

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
111-77-3	2-(2-Methoxyethoxy)ethanol	No		
111-76-2	2-Butoxyethanol	No		
NA - 04	Chromium (and its compounds)	No		
107-21-1	Ethylene glycol	No		
64742-48-9	Hydrotreated heavy naphtha	No		
64742-47-8	Hydrotreated light distillate	No		
NA - 20	Nonylphenol and its ethoxylates	Yes	Chromaflo is in the process of the reformulation of water-based products to remove NPE.	Chromaflo is in the process of the reformulation of water-based products to remove NPE.
108-65-6	Propylene glycol methyl ether acetate	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
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CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
1330-20-7	Xylene (all isomers)	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.	
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
111-77-3	2-(2-Methoxyethoxy)ethanol	No		
111-76-2	2-Butoxyethanol	No		
NA - 04	Chromium (and its compounds)	No		
107-21-1	Ethylene glycol	No		
64742-48-9	Hydrotreated heavy naphtha	No		
64742-47-8	Hydrotreated light distillate	No		
NA - 20	Nonylphenol and its ethoxylates	No		
108-65-6	Propylene glycol methyl ether acetate	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

Chromaflo Technologies Canada Inc

Certifying Official (or authorized delegate)

MORT Achaia

Report Submitted by

Mort Achaia

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 MECP TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 30/05/2019, I, MORT Achaia, 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

111-77-3

2-(2-Methoxyethoxy)ethanol

111-76-2

2-Butoxyethanol

67-64-1	Acetone
NA - 04	Chromium (and its compounds)
NA - 05	Cobalt (and its compounds)
100-41-4	Ethylbenzene
107-21-1	Ethylene glycol
64742-48-9	Hydrotreated heavy naphtha
64742-47-8	Hydrotreated light distillate
NA - 20	Nonylphenol and its ethoxylates
108-65-6	Propylene glycol methyl ether acetate
64742-88-7	Solvent naphtha medium aliphatic
8052-41-3	Stoddard solvent
1330-20-7	Xylene (all isomers)

*Due to reporting system limitations, for the 2018 annual report the TRA Substance List may included new Volatile Organic Compounds (VOCs) and/or Dioxins and Furans congeners reported to NPRI only.

Company Name

Chromaflo Technologies Canada Inc

Highest Ranking Employee

MORT Achaia

Report Submitted by

Mort Achaia

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
2018	30/05/2019	Brampton Site	Ontario	Brampton	NPRI,ON MECP TRA,ON MECP

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: 3.15.0



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