

# National Pollutant Release Inventory (NPRI) and



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## Report Preview

### Report Details

Report Year	2015
Report Type:	NPRI,ON MOE TRA
Report Status:	Update 1 - Submitted
Modified Date/Time:	17/06/2016 1:41 PM
Report Update Comments:	Correcting organizational information.

### Company and Facility Details

Company Name:	Bunge Canada Holdings I ULC
Business Number:	131998593
Mailing Address:	Delivery Mode: SuburbanServices Address Line 1: 2190 Service West Road South City, Province/Territory, Postal Code: Oakville Ontario L6L5N1 Country: Canada
Facility Name:	Bunge Canada - Hamilton Plant
NAICS Code:	311224
NPRI ID:	161
Physical Address:	Address Line 1: 0 - 515 Victoria Avenue North City, Province/Territory, Postal Code: Hamilton Ontario L8G3G7 Country: Canada Latitude: 43.16120 Longitude: -79.50580 UTM Zone: 17 UTM Easting: 621472 UTM Northing: 4779800

### Parent Companies

Company Name:	Bunge Canada Holdings I ULC
Business Number:	131998593
Mailing Address:	Delivery Mode: SuburbanServices Address Line 1: 2190 Service West Road South City, Province/Territory, Postal Code: Oakville Ontario L6L5N1 Country: Canada

### Permits

Number or Permit Number:	ON1525801
Government Department, Agency, or Program Name:	Ontario Waste Generator Number

### Contacts Details

Contact Type	Technical Contact, Person who prepared the report, Person who coordinated the preparation
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Name:	Christa Andrew
Position:	Environmental Specialist
Telephone:	3142922707
Email:	christa.andrew@bunge.com
Mailing Address:	Delivery Mode: GeneralDelivery PO Box: 28500 Address Line 1: 11720 Borman Drive City, Province/Territory, Postal Code: St. Louis Missouri 63146-1000 Country: UnitedStates
Contact Type	Certifying Official, Company Coordinator, Highest Ranking Employee
Name:	Kevin Chadwick
Position:	Plant Manager
Telephone:	9055778055
Email:	kevin.chadwick@bunge.com
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 515 Victoria Avenue Avenue North City, Province/Territory, Postal Code: Hamilton Ontario L8N3K7 Country: Canada

## General Information

Number of employees:	122
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene:	None of the above
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Is this the first time the facility is reporting to the NPRI (under current or past ownership):	No
Is the facility controlled by another Canadian company or companies:	No
Did the facility report under other environmental regulations or permits:	No
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	Yes
Was the facility shut down for more than one week during the year:	No
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri, Sat, Sun
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
630-08-0	Carbon monoxide	32.3800	N/A	N/A	N/A	tonnes
50-00-0	Formaldehyde	0.0210	N/A	0.1880	N/A	tonnes
67-56-1	Methanol	0.0080	N/A	0.0740	N/A	tonnes
110-54-3	n-Hexane	281.4660	N/A	0.1300	N/A	tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	38.5500	N/A	N/A	N/A	tonnes
NA - 22	Phosphorus (total)	N/A	N/A	N/A	N/A	tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	25.0250	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	13.7570	N/A	N/A	N/A	tonnes
7664-93-9	Sulphuric acid	N/A	N/A	N/A	N/A	tonnes
NA - M08	Total Particulate Matter	29.1400	N/A	N/A	N/A	tonnes

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - M16	Volatile Organic Compounds (VOCs)	422.0600	422.0610	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
630-08-0	Carbon monoxide	Yes	Yes		No
50-00-0	Formaldehyde	Yes	Yes		No
67-56-1	Methanol	Yes	Yes		No
110-54-3	n-Hexane	Yes	Yes		Yes
11104-93-1	Nitrogen oxides (expressed as NO2)	Yes	Yes		No
NA - 22	Phosphorus (total)	Yes	Yes		No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Yes	Yes		No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Yes	Yes		No
7664-93-9	Sulphuric acid	Yes	Yes		No
NA - M08	Total Particulate Matter	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No

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

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
50-00-0	Formaldehyde	Yes	Yes	No
67-56-1	Methanol	Yes	No	No
110-54-3	n-Hexane	Yes	No	No
NA - 22	Phosphorus (total)	No	No	No
7664-93-9	Sulphuric acid	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes

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

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
50-00-0	Formaldehyde	Yes	No	No
67-56-1	Methanol	Yes	No	No
110-54-3	n-Hexane	Yes	No	No
NA - 22	Phosphorus (total)	No	No	No
7664-93-9	Sulphuric acid	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			

## General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
50-00-0	Formaldehyde			Ancillary/other use
67-56-1	Methanol			Ancillary/other use
110-54-3	n-Hexane			Ancillary/other use
NA - 22	Phosphorus (total)			As a physical or chemical processing aid
7664-93-9	Sulphuric acid			Ancillary/other use
NA - M16	Volatile Organic Compounds (VOCs)			

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
630-08-0	Carbon monoxide	Use	0 tonnes	No
630-08-0	Carbon monoxide	Creation	32.38 tonnes	No
630-08-0	Carbon monoxide	Contained		
50-00-0	Formaldehyde	Use	66.00 tonnes	No
50-00-0	Formaldehyde	Creation	0 tonnes	No
50-00-0	Formaldehyde	Contained	0 tonnes	No
67-56-1	Methanol	Use	26.00 tonnes	No
67-56-1	Methanol	Creation	0 tonnes	No

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
67-56-1	Methanol	Contained	0 tonnes	No
110-54-3	n-Hexane	Use	320.95 tonnes	No
110-54-3	n-Hexane	Creation	0 tonnes	No
110-54-3	n-Hexane	Contained	0 tonnes	No
11104-93-1	Nitrogen oxides (expressed as NO2)	Use	0 tonnes	No
11104-93-1	Nitrogen oxides (expressed as NO2)	Creation	38.55 tonnes	No
11104-93-1	Nitrogen oxides (expressed as NO2)	Contained		
NA - 22	Phosphorus (total)	Use	33.00 tonnes	No
NA - 22	Phosphorus (total)	Creation	0 tonnes	No
NA - 22	Phosphorus (total)	Contained	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	25.03 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0 tonnes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	13.76 tonnes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained		
7664-93-9	Sulphuric acid	Use	14.51 tonnes	No
7664-93-9	Sulphuric acid	Creation	0 tonnes	No
7664-93-9	Sulphuric acid	Contained	0 tonnes	No
NA - M08	Total Particulate Matter	Use	0 tonnes	No
NA - M08	Total Particulate Matter	Creation	29.14 tonnes	No
NA - M08	Total Particulate Matter	Contained		
NA - M16	Volatile Organic Compounds (VOCs)	Use	584.7 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Contained		

#### TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained	Quantity
50-00-0	Formaldehyde	Use	66.0 tonnes
50-00-0	Formaldehyde	Creation	0 tonnes
NA - 32	Hexane (all isomers excluding n-hexane)	Use	160.45 tonnes
67-56-1	Methanol	Use	26.0 tonnes
110-54-3	n-Hexane	Use	320.95 tonnes

#### TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained	Quantity
Use	573.40 tonnes
Creation	0 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	Incidents out of the normal course of events	Significant Process Change
630-08-0	Carbon monoxide					No
50-00-0	Formaldehyde					No
67-56-1	Methanol					No
110-54-3	n-Hexane					No
11104-93-1	Nitrogen oxides (expressed as NO2)					No
NA - 22	Phosphorus (total)					No
NA - M09	PM10 - Particulate Matter <= 10 Microns					No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns					No
7664-93-9	Sulphuric acid					No
NA - M08	Total Particulate Matter					No
NA - M16	Volatile Organic Compounds (VOCs)					No

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

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
630-08-0	Carbon monoxide	Stack or Point Releases	C - Mass Balance		32.38 tonnes
67-56-1	Methanol	Stack or Point Releases	C - Mass Balance		0.008 tonnes
110-54-3	n-Hexane	Stack or Point Releases	C - Mass Balance		43.47 tonnes
110-54-3	n-Hexane	Fugitive Releases	C - Mass Balance		237.9 tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	Stack or Point Releases	C - Mass Balance		38.55 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	C - Mass Balance		24.14 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Fugitive Releases	C - Mass Balance		0.885 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	C - Mass Balance		13.56 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Fugitive Releases	C - Mass Balance		0.197 tonnes
NA - M08	Total Particulate Matter	Stack or Point Releases	C - Mass Balance		24.84 tonnes
NA - M08	Total Particulate Matter	Fugitive Releases	C - Mass Balance		4.30 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	M3 - Source Testing		65.23 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	M3 - Source Testing		356.83 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		356.83 tonnes

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

CAS RN	Substance Name	Total - Releases to Air
630-08-0	Carbon monoxide	32.38 tonnes
67-56-1	Methanol	0.008 tonnes
110-54-3	n-Hexane	281.37 tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	38.55 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	25.025 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	13.757 tonnes
NA - M08	Total Particulate Matter	29.14 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	422.06 tonnes

### On-site Releases - Releases to air - Releases from Stacks equal to or greater than 50m

CAS RN	Substance Name	Stack Name	Quantity	Height (m)	Diameter (m)	Exit Velocity (m/s)	Exit Temperature (°C)
NA - M08	Total Particulate Matter	Main Stack	4.19 tonnes	45.0000	1.9300	12.240	50.300
NA - M09	PM10 - Particulate Matter <= 10 Microns	Main Stack	3.50 tonnes	45.0000	1.9300	12.240	50.300
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Main Stack	1.772 tonnes	45.0000	1.9300	12.240	50.300
NA - M16	Volatile Organic Compounds (VOCs)	Main Stack	65.23 tonnes	45.0000	1.9300	12.240	50.300

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

Stack Name	CAS RN	Substance Name	Quantity
Main Stack	50-00-0	Formaldehyde	0.021 tonnes
Main Stack	NA - 32	Hexane (all isomers excluding n-hexane)	21.73 tonnes
Main Stack	67-56-1	Methanol	0.008 tonnes
Main Stack	110-54-3	n-Hexane	43.472 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	NA - 32	Hexane (all isomers excluding n-hexane)	118.93 tonnes
Other Sources - Speciated VOCs	110-54-3	n-Hexane	237.9 tonnes

### On-site Releases - Releases to water

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
110-54-3	n-Hexane	Direct Discharges	C - Mass Balance		0.096 tonnes

### On-site Releases - Releases to water - Total

CAS RN	Substance Name	Total - Releases to Water
110-54-3	n-Hexane	0.096 tonnes

### On-site Releases - Releases to water - Waterbody Breakdown List

CAS RN	Substance Name	Category	Water Body Name	Water Shed ID	Quantity
110-54-3	n-Hexane	Direct Discharges	City of Hamilton Waste Water Treatment Facility		0.096 tonnes

### On-site Releases - Releases to water - Dioxins and Furans Breakdown List

Category	CAS RN	Substance Name	Water Body Name	Quantity
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### Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
50-00-0	Formaldehyde	Total Quantity Released	C - Mass Balance		0.021 tonnes

### On-site Releases - Total

CAS RN	Substance Name	Total releases
67-56-1	Methanol	0.008 tonnes
110-54-3	n-Hexane	281.466 tonnes

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

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
50-00-0	Formaldehyde	25	25	25	25
67-56-1	Methanol	25	25	25	25
110-54-3	n-Hexane	25	25	25	25

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

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
630-08-0	Carbon monoxide	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
11104-93-1	Nitrogen oxides (expressed as NO2)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M09	PM10 - Particulate Matter <= 10 Microns	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M08	Total Particulate Matter	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M16	Volatile Organic Compounds (VOCs)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

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

CAS RN	Substance Name	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
110-54-3	n-Hexane	No significant change (i.e. < 10%) or no change	
11104-93-1	Nitrogen oxides (expressed as NO2)	No significant change (i.e. < 10%) or no change	
50-00-0	Formaldehyde	No significant change (i.e. < 10%) or no change	
630-08-0	Carbon monoxide	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	
NA - 22	Phosphorus (total)	No significant change (i.e. < 10%) or no change	
NA - M08	Total Particulate Matter	No significant change (i.e. < 10%) or no change	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No significant change (i.e. < 10%) or no change	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No significant change (i.e. < 10%) or no change	
NA - M16	Volatile Organic Compounds (VOCs)	No significant change (i.e. < 10%) or no change	

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

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
110-54-3	n-Hexane	Landfill	C - Mass Balance		0 tonnes

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

CAS RN	Substance Name	Total - On-site Disposals
110-54-3	n-Hexane	0 tonnes

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

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
50-00-0	Formaldehyde	Landfill	C - Mass Balance		0.188 tonnes
67-56-1	Methanol	Landfill	C - Mass Balance		0.074 tonnes
110-54-3	n-Hexane	Landfill	C - Mass Balance		0.130 tonnes

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

CAS RN	Substance Name	Total - Off-site Disposals
50-00-0	Formaldehyde	0.188 tonnes
67-56-1	Methanol	0.074 tonnes
110-54-3	n-Hexane	0.130 tonnes

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

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
110-54-3	n-Hexane	Landfill	Lionel court farms	Trinity Church Road, Binbrook, ON, Canada	0.130 tonnes
50-00-0	Formaldehyde	Landfill	Lionel court farms	Trinity Church Road, Binbrook, ON, Canada	0.188 tonnes
67-56-1	Methanol	Landfill	Lionel court farms	Trinity Church Road, Binbrook, ON, Canada	0.074 tonnes

## Disposals - Off-site Disposal (excluding Tailings and Waste Rock) - Dioxins and Furans Breakdown List By Facility

Category	CAS RN	Substance Name	Off-site Name	Quantity
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## Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
50-00-0	Formaldehyde	0.188 tonnes
67-56-1	Methanol	0.074 tonnes
110-54-3	n-Hexane	0.130 tonnes

## Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
110-54-3	n-Hexane	Contaminated materials	No significant change (i.e. < 10%) or no change	
50-00-0	Formaldehyde	Contaminated materials	No significant change (i.e. < 10%) or no change	
67-56-1	Methanol	Contaminated materials	No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid		No significant change (i.e. < 10%) or no change	
NA - 22	Phosphorus (total)		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
110-54-3	n-Hexane		Other (specify in recycling comments field)	No recycling
50-00-0	Formaldehyde		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	
NA - 22	Phosphorus (total)		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
630-08-0	Carbon monoxide	No	Enters the facility (Use)	0 tonnes	0.0 tonnes	2014	0.0	
630-08-0	Carbon monoxide	No	Creation	32.38 tonnes	34.39 tonnes	2014	-2.01	-5.84
50-00-0	Formaldehyde	No	Enters the facility (Use)	66.00 tonnes	61.08 tonnes	2014	4.92	8.06
50-00-0	Formaldehyde	No	Creation	0 tonnes	0 tonnes	2014	0	
50-00-0	Formaldehyde	No	Contained	0 tonnes	0 tonnes	2014	0	
50-00-0	Formaldehyde	Yes	Enters the facility (Use)	66.0 tonnes	61.07 tonnes	2014	4.93	8.07
50-00-0	Formaldehyde	Yes	Creation	0 tonnes	0 tonnes	2014	0	
NA - 32	Hexane (all isomers excluding n-hexane)	Yes	Enters the facility (Use)	160.45 tonnes	171.35 tonnes	2014	-10.90	-6.36

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-56-1	Methanol	No	Enters the facility (Use)	26.00 tonnes	23.88 tonnes	2014	2.12	8.88
67-56-1	Methanol	No	Creation	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	No	Contained	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	Yes	Enters the facility (Use)	26.0 tonnes	23.884 tonnes	2014	2.116	8.86
110-54-3	n-Hexane	Yes	Enters the facility (Use)	320.95 tonnes	342.75 tonnes	2014	-21.80	-6.36
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Creation	38.55 tonnes	40.94 tonnes	2014	-2.39	-5.84
NA - 22	Phosphorus (total)	No	Enters the facility (Use)	33.00 tonnes	34.35 tonnes	2014	-1.35	-3.93
NA - 22	Phosphorus (total)	No	Creation	0 tonnes	0 tonnes	2014	0	
NA - 22	Phosphorus (total)	No	Contained	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	25.03 tonnes	24.91 tonnes	2014	0.12	0.48
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	13.76 tonnes	13.34 tonnes	2014	0.42	3.15
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	14.51 tonnes	12.71 tonnes	2014	1.80	14.16
7664-93-9	Sulphuric acid	No	Creation	0 tonnes	0 tonnes	2014	0	
7664-93-9	Sulphuric acid	No	Contained	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Creation	29.14 tonnes	28.01 tonnes	2014	1.13	4.03

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
630-08-0	Carbon monoxide	No reasons - quantities approximately the same	
50-00-0	Formaldehyde	No reasons - quantities approximately the same	
67-56-1	Methanol	No reasons - quantities approximately the same	
11104-93-1	Nitrogen oxides (expressed as NO2)	No reasons - quantities approximately the same	
NA - 22	Phosphorus (total)	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No reasons - quantities approximately the same	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No reasons - quantities approximately the same	
7664-93-9	Sulphuric acid	No reasons - quantities approximately the same	
NA - M08	Total Particulate Matter	No reasons - quantities approximately the same	
NA - M16	Volatile Organic Compounds (VOCs)	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
630-08-0	Carbon monoxide	No	Total Releases to Air	32.38 tonnes	34.39 tonnes	2014	-2.01	-5.84
630-08-0	Carbon monoxide	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
50-00-0	Formaldehyde	No	Total Releases to Air	0 tonnes				
50-00-0	Formaldehyde	No	Total Releases to Water	0 tonnes				
50-00-0	Formaldehyde	No	Total Releases to Land	0 tonnes				
50-00-0	Formaldehyde	No	Total Releases to All Media	0.021 tonnes	0.021 tonnes	2014	0.000	0
50-00-0	Formaldehyde	Yes	Total Releases to Air	0.021 tonnes	0.021 tonnes	2014	0.000	0
NA - 32	Hexane (all isomers excluding n-hexane)	Yes	Total Releases to Air	140.66 tonnes	153.97 tonnes	2014	-13.31	-8.64



CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-56-1	Methanol	No	Total Releases to Air	0.008 tonnes	0.008 tonnes	2014	0.000	0
67-56-1	Methanol	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	No	Total Releases to All Media	0 tonnes	0.008 tonnes	2013	-0.008	-100
67-56-1	Methanol	Yes	Total Releases to Air	0.008 tonnes	0.008 tonnes	2014	0.000	0
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Air	38.55 tonnes	40.94 tonnes	2014	-2.39	-5.84
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	25.025 tonnes	24.91 tonnes	2014	0.115	0.46
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Air	13.757 tonnes	13.34 tonnes	2014	0.417	3.13
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	
NA - M08	Total Particulate Matter	No	Total Releases to Air	29.14 tonnes	28.01 tonnes	2014	1.13	4.03
NA - M08	Total Particulate Matter	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Total Releases to All Media	0 tonnes	0 tonnes	2013	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
630-08-0	Carbon monoxide	No reasons - quantities approximately the same	
50-00-0	Formaldehyde	No reasons - quantities approximately the same	
67-56-1	Methanol	No reasons - quantities approximately the same	
11104-93-1	Nitrogen oxides (expressed as NO2)	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No reasons - quantities approximately the same	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No reasons - quantities approximately the same	
NA - M08	Total Particulate Matter	No reasons - quantities approximately the same	
NA - M16	Volatile Organic Compounds (VOCs)	No reasons - quantities approximately the same	

### 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
50-00-0	Formaldehyde	No	Total On-site Disposals	0 tonnes	0 tonnes	2014	0	
50-00-0	Formaldehyde	No	Total Off-site Disposals	0.188 tonnes	0.226 tonnes	2014	-0.038	-16.81
50-00-0	Formaldehyde	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2014	0	
50-00-0	Formaldehyde	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2014	0	
50-00-0	Formaldehyde	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	No	Total On-site Disposals	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	No	Total Off-site Disposals	0.074 tonnes	0.089 tonnes	2014	-0.015	-16.85

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-56-1	Methanol	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2014	0	
67-56-1	Methanol	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2014	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
50-00-0	Formaldehyde	No reasons - quantities approximately the same	
67-56-1	Methanol	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
630-08-0	Carbon monoxide	No technically and economically feasible options to reduce the carbon monoxide emissions at Bunge have been identified through the Toxic Substance Reduction Plan process.
50-00-0	Formaldehyde	Bunge intends to minimize use of formaldehyde through continuation of existing programs. The level of reduction that may be attained cannot be quantified at this time.
NA - 32	Hexane (all isomers excluding n-hexane)	No technically and economically feasible options to reduce the hexane emissions at Bunge have been identified through the Toxic Substance Reduction Plan process.
67-56-1	Methanol	Bunge intends to minimize use of methanol through continuation of existing programs. The level of reduction that may be attained cannot be quantified at this time.
110-54-3	n-Hexane	No technically and economically feasible options to reduce the n-Hexane emissions at Bunge have been identified through the Toxic Substance Reduction Plan process.
11104-93-1	Nitrogen oxides (expressed as NO2)	No technically and economically feasible options to reduce the nitrogen oxides emissions at Bunge have been identified through the Toxic Substance Reduction Plan process.
NA - 22	Phosphorus (total)	Bunge intends to minimize the use of phosphorus through continuation of existing programs, but no additional reduction in phosphorus use is anticipated at this time.
NA - M09	PM10 - Particulate Matter <= 10 Microns	No technically and economically feasible options to reduce the particulate matter emissions at Bunge have been identified through the Toxic Substance Reduction Plan process.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No technically and economically feasible options to reduce the particulate matter emissions at Bunge have been identified through the Toxic Substance Reduction Plan process.
7664-93-9	Sulphuric acid	Bunge intends to minimize the use of sulphuric acid through continuation of existing programs, but no additional reduction in sulphuric acid use is anticipated at this time.
NA - M08	Total Particulate Matter	No technically and economically feasible options to reduce the particulate matter emissions at Bunge have been identified through the Toxic Substance Reduction Plan process.

## Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
630-08-0	Carbon monoxide	No quantity target	No timeline target	
50-00-0	Formaldehyde	No quantity target	No timeline target	
NA - 32	Hexane (all isomers excluding n-hexane)	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
110-54-3	n-Hexane	No quantity target	No timeline target	
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	
NA - 22	Phosphorus (total)	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	No quantity target	No timeline target	
NA - M08	Total Particulate Matter	No quantity target	No timeline target	

## Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
630-08-0	Carbon monoxide	No quantity target	No timeline target	
50-00-0	Formaldehyde	No quantity target	No timeline target	
NA - 32	Hexane (all isomers excluding n-hexane)	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	

CAS RN	Substance Name	Quantity	Years	Description of Target
110-54-3	n-Hexane	No quantity target	No timeline target	
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	
NA - 22	Phosphorus (total)	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	No quantity target	No timeline target	
NA - M08	Total Particulate Matter	No quantity target	No timeline target	

### 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
630-08-0	Carbon monoxide	No		
50-00-0	Formaldehyde	No		
NA - 32	Hexane (all isomers excluding n-hexane)	No		
67-56-1	Methanol	No		
110-54-3	n-Hexane	No		
11104-93-1	Nitrogen oxides (expressed as NO2)	No		
NA - 22	Phosphorus (total)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
7664-93-9	Sulphuric acid	No		
NA - M08	Total Particulate Matter	No		

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

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
630-08-0	Carbon monoxide	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
50-00-0	Formaldehyde	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-00-0	Formaldehyde	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-00-0	Formaldehyde	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
50-00-0	Formaldehyde	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-00-0	Formaldehyde	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
50-00-0	Formaldehyde	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	





CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - M08	Total Particulate Matter	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - M08	Total Particulate Matter	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	

## Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
630-08-0	Carbon monoxide	No		
50-00-0	Formaldehyde	No		
NA - 32	Hexane (all isomers excluding n-hexane)	No		
67-56-1	Methanol	No		
110-54-3	n-Hexane	No		
11104-93-1	Nitrogen oxides (expressed as NO2)	No		
NA - 22	Phosphorus (total)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
7664-93-9	Sulphuric acid	No		
NA - M08	Total Particulate Matter	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 \_\_\_\_\_

Bunge Canada Holdings I ULC

Certifying Official (or authorized delegate) \_\_\_\_\_

Kevin Chadwick

Report Submitted by \_\_\_\_\_

Kevin Chadwick

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I

## ON MOE TRA - Electronic Certification Statement

### Annual Report Certification Statement

As of 17/06/2016, I, Kevin Chadwick, 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
110-54-3	n-Hexane
50-00-0	Formaldehyde
67-56-1	Methanol
NA - 22	Phosphorus (total)
7664-93-9	Sulphuric acid
630-08-0	Carbon monoxide
11104-93-1	Nitrogen oxides (expressed as NO2)
NA - M08	Total Particulate Matter
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns

### Exit Record Certification Statement

As of 17/06/2016, I Kevin Chadwick, 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 Bunge Canada - Hamilton Plant and am familiar with their contents and to my knowledge they are factually accurate.

#### TRA Exit Record Substances

CAS RN	Substance Name
64475-85-0	Mineral spirits

#### Company Name

Bunge Canada Holdings I ULC

#### Highest Ranking Employee

Kevin Chadwick

#### Report Submitted by

Kevin Chadwick

#### 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
2015	17/06/2016	Bunge Canada - Hamilton Plant	Ontario	Hamilton	NPRI, ON MOE TRA

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

Version: 3.10.0



