

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Facility Information

Company Name	Terra International (Canada) Inc.
Facility Name	CF Industries Courtright Nitrogen Complex
Facility Physical Address	161 Bickford Line, Courtright, ON, Canada, N0N 1H0
Facility Mailing Address	Same as physical address
Spatial Coordinates of Facility	381104 Easting; 4735453 Northing
Number of Employees	210
NPRI ID	2233
2 Digit NAICS Code	31-33
4 Digit NAICS Code	3253
6 Digit NAICS Code	325313

Parent Company Information

Parent Company Name	CF Industries Holdings Inc.
Address	Suite 400 - 4 Parkway North, Deerfield, IL, USA, 60015-2590
Percent Ownership (if available)	100.00%

Facility Contact

Public Contact	Luke Kittmer
Position	EH&S Manager
Address	161 Bickford Line, Courtright, ON, Canada, N0N 1H0
email	LKittmer@cfindustries.com
Phone	519-867-2739 x1925
Fax	519-867-3173

Date of Summary

Reporting Year	2018
Summary Date	June 1, 2019

Toxics Substances Reported

Copper, Cobalt, Sulphuric Acid, Zinc, Nickel, Asbestos, Chromium (VI), Ammonia, Nitrate Ion, Nitric Acid, PM10, PM2.5, CO, NOx, Hexane, Propane, Butane and Pentane

Toxics substances reported in 2017RY that did not meet the reporting threshold in 2018RY:

None

Copy of Certification:

As of June 1, 2019, I certify that I have read the report on the toxic substance reduction plan(s) for the toxics listed above and am familiar with their contents and to my knowledge the information contained in the report(s) is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

The original version of this report is signed off by:

Highest Ranking Employee: Amanda Pascavage

Title: Plant Manager

Signature: 

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	COPPER (AND ITS COMPOUNDS)
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2019
Plan Date:	15-Dec-12
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use of copper, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and <input type="checkbox"/> we will continue to manage and prevent releases of copper through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>0 to 1	>10 to 100	>10 to 100	631463%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to -1	-5%
Summary of reasons for changes between current year and previous year.	Catalyst changeout in 2018			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	ZINC (AND ITS COMPOUNDS)
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2019
Plan Date:	15-Dec-12
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use of zinc, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and <input type="checkbox"/> we will continue to manage and prevent releases of zinc through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>0 to 1	>10 to 100	>10 to 100	12791%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to -1	-4%
Summary of reasons for changes between current year and previous year.	Catalyst changeout in 2018			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	NICKEL (AND ITS COMPOUNDS EXCEPT NICKEL CARBONYL)
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2019
Plan Date:	1-Dec-14
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use of nickel, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and <input type="checkbox"/> we will continue to manage and prevent releases of nickel through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>0 to 1	>1 to 10	>1 to 10	30202%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to -1	-5%
Summary of reasons for changes between current year and previous year.	Catalyst changeout in 2018			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	SULPHURIC ACID
CAS #	7664-93-9
Report Date:	June 1, 2019
Plan Date:	15-Dec-12
Plan Objectives and Targets	While Terra International (Canada) Inc. does not intend to reduce the use of sulphuric acid, our goal is to further minimize the potential for sulphuric acid losses through continuous improvements and our commitment to best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-14%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in purchased amount			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PM10
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of particulate matter, the plan was developed with the following objectives:</p> <p><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</p> <p><input type="checkbox"/> we will continue to manage and prevent releases of particulate matter through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	> -1 to -10	-30%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PM2.5
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of particulate matter, the plan was developed with the following objectives:</p> <p><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</p> <p><input type="checkbox"/> we will continue to manage and prevent releases of particulate matter through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	> -1 to -10	-30%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

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Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	CO
CAS #	630-08-0
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of carbon monoxide, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> • we will continue to operate in full compliance with all applicable environmental regulations; and • we will continue to manage and prevent releases of carbon monoxide through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>100 to 1000	>100 to 1000	> -1 to -10	-6%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

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Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	NOx
CAS #	11104-93-1
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of nitrogen oxides, the plan was developed with the following objectives:</p> <p><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</p> <p><input type="checkbox"/> we will continue to manage and prevent releases of nitrogen oxides through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>100 to 1000	>100 to 1000	> -10 to -100	-11%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	n-hexane
CAS #	110-54-3
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of nhexane, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> • we will continue to operate in full compliance with all applicable environmental regulations; and • we will continue to manage and prevent releases of n-hexane through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in natural gas usage			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	propane
CAS #	74-98-6
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of propane, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> • we will continue to operate in full compliance with all applicable environmental regulations; and • we will continue to manage and prevent releases of propane through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in natural gas usage			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	BUTANE AND ALL ITS ISOMERS
CAS #	106-97-8
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of butane, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> • we will continue to operate in full compliance with all applicable environmental regulations; and • we will continue to manage and prevent releases of butane through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in natural gas usage			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Pentane and its isomers
CAS #	109-66-0
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of pentane, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> • we will continue to operate in full compliance with all applicable environmental regulations; and • we will continue to manage and prevent releases of pentane through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in natural gas usage			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Ammonia
CAS #	7664-41-7
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use or creation of ammonia, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> • we will continue to operate in full compliance with all applicable environmental regulations; and • we will continue to manage and prevent releases of ammonia through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1 to 10	>1 to 10	>1 to 10	29%
C - Created	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-10%
P - In a product that leaves the process	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-13%
Summary of reasons for changes between current year and previous year.	Decrease in ammonia production and Change in effluent loading of process water brought on site			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Nitrate Ion
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use or creation of nitrate ion, the plan was developed with the following objectives:</p> <p><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</p> <p><input type="checkbox"/> we will continue to manage and prevent releases of nitrate ion through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>1 to 10	5%
C - Created	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
Summary of reasons for changes between current year and previous year.	Decrease in AN production and Change in effluent loading of process water brought on site			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Nitric Acid
CAS #	7697-37-2
Report Date:	June 1, 2019
Plan Date:	15-Dec-13
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of nitric acid, the plan was developed with the following objectives:</p> <p><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</p> <p><input type="checkbox"/> we will continue to manage and prevent releases of nitric acid through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10,000 to 100,000	>10,000 to 100,000	>-10,000 to -100,000	-17%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
Summary of reasons for changes between current year and previous year.	Decrease in nitric acid production and Decrease in nitric acid shipped			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	ASBESTOS (TOTAL)
CAS #	1332-21-4
Report Date:	June 1, 2019
Plan Date:	15-Dec-12
Plan Objectives and Targets	<p>This plan was developed with the following objectives:</p> <input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and <input type="checkbox"/> we will continue our ongoing program of Asbestos removal

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	No reasons - quantities approximately the same			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	CHROMIUM (VI) COMPOUNDS
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2019
Plan Date:	15-Dec-12
Plan Objectives and Targets	<p>Plan Objectives</p> <p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use of hexavalent chromium, the plan was developed with the following objectives:</p> <p><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</p> <p><input type="checkbox"/> we will continue to manage and prevent releases of hexavalent chromium through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	kg		
U - Enters the Process (Raw Materials)	0	>100 to 1000	#N/A	NA
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Catalyst changeout in 2018			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	COBALT (AND ITS COMPOUNDS)
CAS #	1332-21-4
Report Date:	June 1, 2019
Plan Date:	27-Nov-17
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of cobalt, the plan was developed with the following objectives:</p> <p><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</p> <p><input type="checkbox"/> we will continue to manage and prevent releases of nitric acid through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>0 to 1	>0 to 1	>0 to -1	-4%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to -1	-4%
Summary of reasons for changes between current year and previous year.	Decrease in natural gas usage			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable