

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	158
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	Joe Lasowski
Position	Environmental Engineer
Address	161 Bickford Line, Courtright, ON, Canada, N0N 1H0
email	JLasowski@cfindustries.com
Phone	519-867-2739 x1605
Fax	519-867-3173

Date of Summary

Reporting Year	2016
Summary Date	June 1, 2017

Toxics Substances Reported

Formaldehyde, Methanol, Copper, Sulphuric Acid, Zinc, Nickel, Ammonia, Nitrate Ion, Nitric Acid, PM10, PM2.5, CO, NOx, hexane, propane, butane and pentane

Toxics substances reported in 2015RY that did not meet the reporting threshold in 2016RY:

Hexavalent Chromium, Asbestos

Copy of Certification:

As of June 1, 2017, 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 Leader

Signature: _____

CF Industries Courtright Nitrogen Complex

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	FORMALDEHYDE
CAS #	50-00-0
Report Date:	June 1, 2017
Plan Date:	15-Dec-12
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use of formaldehyde, 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 formaldehyde through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-23%
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 granular 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	COPPER (AND ITS COMPOUNDS)
CAS #	No single CAS number applies to this substance
Report Date:	June 1, 2017
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> <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 copper through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>0 to 1	>0 to 1	0	14%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	0	11%
Summary of reasons for changes between current year and previous year.	ammonia production increase			

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, 2017
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> <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 zinc through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>0 to 1	> -10 to -100	-99%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to 1	11%
Summary of reasons for changes between current year and previous year.	no catalyst change out			

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, 2017
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> <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 nickel through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1 to 10	>0 to 1	> -1 to -10	-100%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to 1	11%
Summary of reasons for changes between current year and previous year.	no catalyst change out			

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, 2017
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	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-15%
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	methanol
CAS #	67-56-1
Report Date:	June 1, 2017
Plan Date:	15-Dec-12
Plan Objectives and Targets	<p>While CF Industries Courtright Nitrogen Complex does not intend to reduce the use of methanol, 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 methanol through current and future pollution prevention and best management practices.</p>

Toxics Substance Accounting and Comparison

Pathways	2015	2016	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	-33%
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 of product that uses substance			

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, 2017
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	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10 to 100	>10 to 100	>1 to 10	13%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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, 2017
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	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10 to 100	>10 to 100	>1 to 10	13%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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	CO
CAS #	630-08-0
Report Date:	June 1, 2017
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	2015	2016	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	19%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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	NOx
CAS #	11104-93-1
Report Date:	June 1, 2017
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	2015	2016	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	13%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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, 2017
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	2015	2016	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	21%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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, 2017
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	2015	2016	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	21%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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, 2017
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	2015	2016	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	21%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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, 2017
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	2015	2016	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	21%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	production increase			

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, 2017
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	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1 to 10	>0 to 1	> -1 to -10	-82%
C - Created	>100,000 to 1,000,000	>100,000 to 1,000,000	>10,000 to 100,000	15%
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.	change in effluent loading of process water brought on site and ammonia production increase			

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, 2017
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	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>10 to 100	32%
C - Created	>10,000 to 100,000	>10,000 to 100,000	>10,000 to 100,000	13%
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	>10,000 to 100,000	13%
Summary of reasons for changes between current year and previous year.	AN production increase			

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, 2017
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	2015	2016	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10,000 to 100,000	>100,000 to 1,000,000	>10,000 to 100,000	13%
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	>100 to 1000	8%
Summary of reasons for changes between current year and previous year.	change in Nitric Acid 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