



## Toxics Reduction Act- Public Summary Report

KIK Holdco Company Inc. (KIK) is a contract manufacturing facility of consumer goods and household cleaning products with products formulated based on customer specifications and orders.

KIK is committed to make all reasonable efforts to promote the sustainable use of natural resources and to reduce the environmental impact of all KIK's activities. KIK contributes to pollution prevention by operating within compliance with all company policies and relevant legislation, ongoing assessment of environmental impacts, and the reduction of waste generation and emissions.

### *Etobicoke: Rexdale Plant #1 & Plant #2*

#### 1.0 General Information

Facility Information		
Company Name	KIK Holdco Company Inc.	KIK Holdco Company Inc.
Facility Name	Rexdale Plant #1 (11 & 13 Bethridge)	Rexdale Plant #2 (10 Bethridge & 2000 Kipling)
Facility Address	13 Bethridge Road, Etobicoke	2000 Kipling Ave, Etobicoke
NPRI ID	0000000179	00000000181
Spatial Coordinates	Latitude: 43.70830 Longitude: -79.56810	Latitude: 43.7111043 Longitude: -79.56690
Number of Employees	344	271
Primary North American Industrial Classification System (NAICS) Code	325610	Soap and Cleaning Compound Manufacturing

Contact Information	
Facility Public Contact	Kimberly Clark, Regional HESS Manager <a href="mailto:kclark@kikcorp.com">kclark@kikcorp.com</a> Phone: (416) 740-7400 ext. 201337
Facility Operator	Kamen Petrov <a href="mailto:kpetrov@kikcorp.com">kpetrov@kikcorp.com</a> Phone: (416) 740-7400 ext. 201331

Parent Company (PC) Information	
PC Name	KIK Holdco Company
PC Address	33 MacIntosh Blvd, Concord, ON
Percent Ownership	99.99%

## 2.0 Approach to Toxic Substance Accounting

Toxic Substance Accounting	
Substance	CAS #
Zinc Compounds	Not Applicable
Hydrochloric Acid	7647-01-0
Benzoyl Peroxide	94-36-0
Isopropyl Alcohol	67-63-0
PM2.5	Not Applicable

Accounting Details- Quantities for 2017 in Tonnes					
Substance	Use	Created	Contained in Product	Releases	Treatment/ Disposal/ Recycling
<b>Plant #1</b>					
Zinc (and its Compounds)	105.22	0	105.21	Air: 0.012	0.042
Isopropyl Alcohol	12.94	0	12.94	Air: 0.006	0
PM2.5	0	0.44	0	Air: 0.44	0
<b>Plant #2</b>					
Benzoyl Peroxide	57.08	0	57.08	Air: 0.0001	0
Hydrochloric Acid	6.36	0	6.36	All Media: 0.0004	0
Isopropyl Alcohol	19.88	0	19.88	Air: 0.01	0
PM2.5	0	0.423	0	Air: 0.423	0
Zinc (and its Compounds)	45.87	0	45.87	Air: 0.005	0.063

Comparison Report: 2017 & 2016 Quantities in Tonnes										
Substance	Use		Created		Contained in Product		Releases		Treatment/ Disposal/ Recycling	
	2017	2016	2017	2016	2017	2016	2017	2016	2017	2016
<b>Plant #1</b>										
Zinc Compounds	105.22	157.4	0	0	105.21	157.4	0.012	0.017	0.042	0.063
Isopropyl Alcohol	12.94	13.71	0	0	12.94	13.71	0.006	0.007	0	0
PM2.5	0	0	0.44	0.206	0	0	0.44	0.206	0	0
<b>Plant #2</b>										
Benzoyl Peroxide	57.08	71.59	0	0	57.08	71.59	0.0001	0.0001	0	0
Hydrochloric Acid	6.36	6.82	0	0	6.36	6.82	0.0004	0.0004	0	0
Isopropyl Alcohol	19.88	19.01	0	0	19.88	19.01	0.01	0.009	0	0
PM2.5	0	0	0.423	0.242	0	0	0.423	0.242	0	0
Zinc Compounds	45.87	50.33	0	0	45.87	50.33	0.005	0.006	0.063	0.063

Comparison Report: 2017 Versus 2016 Change in Tonnes and % Change										
Substance	Use		Created		Contained in Product		Releases		Treatment/ Disposal/ Recycling	
	Ton	%	Ton	%	Ton	%	Ton	%	Ton	%
<b>Plant #1</b>										
Zinc Compounds	-52.18	-33.15	0	0	-52.19	-33.16	-0.005	-29.41	-0.021	-33.33
Isopropyl Alcohol	-0.77	-5.62	0	0	-0.77	-5.62	-0.001	-14.29	0	0
PM2.5	0	0	0.234	113.59	0	0	0.234	113.59	0	0
<b>Plant #2</b>										
Benzoyl Peroxide	-14.51	-20.27	0	0	-14.51	-20.27	0	0	0	0
Hydrochloric Acid	-0.46	-6.74	0	0	-0.46	-6.74	0	0	0	0
Isopropyl Alcohol	0.87	4.58	0	0	0.87	4.58	0.001	11.11	0	0
PM2.5	0	0	0.181	74.79	0	0	0.181	74.79	0	0
Zinc Compounds	-4.46	-8.86	0	0	-4.46	-8.86	-0.001	-16.67	0	0

Reasons for Change	
Substance	Reason
Zinc Compounds	Plant #1-Decrease in production; Plant #2- Decrease in production
Hydrochloric Acid	Decrease in production levels
Benzoyl Peroxide	Factor in calculation was off previously; production decrease
PM2.5	Plant #1 & 2- Quantities approximately the same
Isopropyl Alcohol	Plant #1 & 2- Quantities approximately the same

### 3.0 Objectives, Targets & Reduction Progress

#### Zinc Compounds

**Objective:** The goal of KIK Rexdale is to evaluate the use of zinc compounds and improve efficiencies where available. Although KIK does not formulate the manufactured products, we strive to operate our facility in the most efficient and compliant manner.

**Reduction:** The KIK Rexdale facilities manufacture consumer goods formulated by customer specifications. Zinc compounds are active ingredients in many of the products KIK is contracted to manufacture. Because of this, it is not feasible to replace the zinc compounds with an alternate ingredient. KIK operates with a goal to reduce waste and reduce the purchase of unneeded inventory.

KIK has determined that additional reduction options are not feasible at this time, but will continue to monitor the progress of emerging technologies and safer alternatives that may become feasible options.

#### Isopropyl Alcohol

**Objective:** The goal of KIK Rexdale is to evaluate the use of isopropyl alcohol and improve efficiencies where available. Although KIK does not formulate the manufactured products, we strive to operate our facility in the most efficient and compliant manner.

**Reduction:** The KIK Rexdale facilities manufacture consumer goods formulated by customer specifications. Isopropyl alcohol is an active ingredient in many of the products KIK is contracted to manufacture. Because of this, it is not feasible to replace the isopropyl alcohol with an alternate ingredient. KIK operates with a goal to reduce waste and will work to reduce the purchase of unneeded inventory.

KIK has determined that additional reduction options are not feasible at this time, but will continue to monitor the progress of emerging technologies and safer alternatives that may become feasible options.

#### PM 2.5

**Objective:** The goal of KIK Rexdale is to limit the release of fugitive dust from facility equipment and operations. Procedures and precautions are exercised daily to limit the generation of particulate matter. The particulate matter referenced in this plan has a diameter size less than 2.5 microns (PM 2.5).



**Reduction:** The KIK Rexdale facilities manufacture consumer goods formulated by customer specifications. PM 2.5 is created as a result of the use of active ingredients in products manufactured at the KIK facility. Because of this, it is not feasible to replace the ingredients that lead to the creation of PM 2.5 with an alternate ingredient. KIK operates with a goal to reduce waste and reduce the purchase of unneeded inventory.

KIK has determined that additional reduction options are not feasible at this time, but will continue to monitor the progress of emerging technologies and safer alternatives that may become feasible options.

#### Hydrochloric Acid

**Objective:** The goal of KIK Rexdale is to evaluate the use of hydrochloric acid and improve efficiencies where available. The hydrochloric acid is used in the water deionization process at both Plant 1 and Plant 2. The deionized water is used in the cleaning process or in specific products.

**Reduction:** The process requires the use of purified water in many of the manufactured consumer goods. The HCl solution is used to regenerate the resin beds in the deionization system. Alternate chemicals have been evaluated in the past and it has been determined the use of HCl is required. There have been no quantifiable spills of the HCl solution; therefore, new procedures would not result in the reduction in usage. KIK will continue to use the deionization units and handle the HCl solution under current operating procedures to limit any potential for chemical waste or spills.

KIK has determined that additional reduction options are not feasible at this time, but will continue to monitor the progress of emerging technologies and safer alternatives that may become feasible options.

#### Benzoyl Peroxide

**Objective:** The goal of KIK Rexdale is to evaluate the use of benzoyl peroxide and improve efficiencies where available. Although KIK does not formulate the manufactured products, we strive to operate our facility in the most efficient and compliant manner.

**Reduction:** The KIK Rexdale facilities manufacture consumer goods formulated by customer specifications. Benzoyl peroxides are active ingredients in many of the products KIK is contracted to manufacture. Because of this, it is not feasible to replace the benzoyl peroxides with an alternate ingredient. KIK operates with a goal to reduce waste and will work to reduce the purchase of unneeded inventory.

KIK has determined that additional reduction options are not feasible at this time, but will continue to monitor the progress of emerging technologies and safer alternatives that may become feasible options.

## **4.0 Certification Statements**

Certification statements are located in Appendix A.



## Concord Plant

### 1.0 General Information

Facility Information		
Company Name	KIK Operating Partnership	
Facility Name	KIK Operating Partnership	
Facility Address	33 MacIntosh Boulevard, Concord	
NPRI ID	0000005702	
Spatial Coordinates of Facility	Latitude: 43.80310 Longitude: -79.52300	
Number of Employees	107	
Primary North American Industrial Classification System (NAICS) Code	325610	Soap and Cleaning Compound Manufacturing

Contact Information	
Facility Public Contact/Operator	Rodney Compton, General Manager rcompton@kikcorp.com Phone: (905) 660-0444

Parent Company (PC) Information	
PC Name	KIK Holdco Company
PC Address	33 MacIntosh Blvd, Concord, ON
Percent Ownership	99.99%

### 2.0 Approach to Toxic Substance Accounting

Toxic Substance Accounting	
Substance	CAS #
Chlorine	7782-50-5
2-Butoxyethanol	7647-01-0

Accounting Details- Quantities for 2017 in Tonnes					
Substance	Use	Created	Contained in Product	Releases	Treatment/ Disposal/ Recycling
Chlorine	2931	0	0	0	0
2-Butoxyethanol	32	0	32	0	0

Comparison Report: 2017 & 2016 Quantities in Tonnes										
Substance	Use		Created		Contained in Product		Releases		Treatment/ Disposal/ Recycling	
	2017	2016	2017	2016	2017	2016	2017	2016	2017	2016
Chlorine	2931	2826	0	0	0	0	0	0	0	0
2-Butoxyethanol	32	24	0	0	32	24	0	0	0	0

Comparison Report: 2017 Versus 2016 Change in Tonnes and % Change										
Substance	Use		Created		Contained in Product		Releases		Treatment/ Disposal/ Recycling	
	Ton	%	Ton	%	Ton	%	Ton	%	Ton	%
Chlorine	105	3.72	0	0	0	0	0	0	0	0
2-Butoxyethanol	8	33.33	0	0	8	33.33	0	0	0	0

Reasons for Change	
Substance	Reason
Chlorine	Quantities approximately the same
2-Butoxyethanol	Increase in production

### 3.0 Objectives, Targets & Reduction Progress

#### Chlorine

**Objective:** The goal of KIK Concord is to evaluate the use of chlorine and improve efficiencies where available.

**Reduction:** The KIK Concord facility has reviewed the toxic substance reduction options to ensure that there is no net negative impact to the environment or public health. The selected options will serve to reduce the amount of chlorine used in the process, and will not create any toxic by-products.

The following options have been identified to reduce the use of chlorine:

- Option 4: Evaluate a recycling process of the bleach being treated as wastewater
- Option 3 & Option 5: Implement operating procedures to reduce potential spills from the sampling process and filling lines

#### ***Option 4: Recycling of Waste Bleach***

The KIK Concord facility will evaluate the recycling procedures currently in place at other KIK facilities.

#### ***Option 3 & Option 5: Spill Reduction Operating Procedures***

Site Environmental Health and Safety staff will review the current operating procedures and develop new Standard Operating Procedures. Once the SOPs are developed, appropriate staff will be trained.

#### 2-Butoxyethanol

**Objective:** The goal of KIK Rexdale is to evaluate the use of 2-Butoxyethanol and improve efficiencies where available.

**Reduction:** The KIK Concord facility manufactures consumer goods formulated by customer specifications. 2-Butoxyethanol is an active ingredient in many of the products KIK is contracted to manufacture. Because of this, it is not feasible to replace the 2-Butoxyethanol with an alternate ingredient. KIK operates with a goal to reduce waste and will work to reduce the purchase of unneeded inventory.

KIK has determined that additional reduction options are not feasible at this time, but will continue to monitor the progress of emerging technologies and safer alternatives that may become feasible options.

### 5.0 Certification Statements

Certification statements are located in Appendix A.



**APPENDIX A: TRA PLAN CERTIFICATION STATEMENTS**