



Stouffville Toxic Substance Reduction Plan Summary and Annual Report 2018

Isopropyl Alcohol and Ethyl Alcohol

General Information	3
Background	3
Facility Information	3
Owner / Operator Facility Information	3
Parent Company Information	3
Contact Information	4
Plan Substance Information	4
Plan Objectives and Feasibility	5
Objectives	5
Feasibility and Target	5
Toxic Substance Accounting	6
Used, Created and Contained in Product	6
Released, Disposed, Transferred and Transformed	6
Toxic Reduction Plan Progress	7
Plan Implementation Progress	7
Toxic Reduction Plan Certifications	8
Ethyl Alcohol	8
Isopropyl Alcohol	9
Toxic Reduction Plan Annual Certification	10

General Information

Background

Stantec Consulting Ltd. (Stantec) worked with TEVA Canada Limited (TEVA) to prepare two Toxics Reduction Plans for its facility located at 5691 Main Street in Stouffville, Ontario. There are two Phase II subject toxic substances processed and used in the facility that met the 2012 NPRI reporting criteria as a Part 5 substance and thus a toxics reduction plan was required in accordance with the Ontario Toxic Reduction Act (2009) and Ontario Regulation 455/09: 1) Ethyl Alcohol and 2) Isopropyl Alcohol. A plan was prepared for each substance to meet the requirements of the Act and the Regulation. This report serves as a summary of these plans.

TEVA is committed to review our environmental aspects and continuously improve our environmental programs. TEVA will continue to evaluate opportunities for reduction of the use of Ethyl Alcohol and Isopropyl Alcohol.

Facility Information

Facility Information	
Company Name:	TEVA Canada Ltd.
Facility Name:	TEVA Stouffville
NPRI Identification Number:	11131
Ontario MOE Identification Number:	n/a
NAICS 2 Code:	32 - Manufacturing
NAICS 4 Code:	3254 - Pharmaceutical and Medicine Manufacturing
NAICS 6 Code:	325410 - Pharmaceutical and Medicine Manufacturing
Number of Full-time Employees:	350
UTM Spatial Coordinates (NAD83):	Latitude:43.9651; Longitude: -79.2661
Datum:	1983

Owner / Operator Facility Information

Owner of the Facility Information	
Name:	TEVA Canada Ltd.
Address:	30 Novopharm Court, Toronto, ON M1B 2K9
Operator of the Facility Information	
Name:	TEVA Canada Ltd.
Address:	5691 Main Street, Stouffville, ON L4A1H5

Parent Company Information

Parent Company Information	
Legal Name of Parent Company:	TEVA Canada Ltd.
Address of Parent Company:	30 Novopharm Court, Toronto, ON M1B 2K9
Percentage of Facility Owned by Company:	100%
CCRA Business Number:	885106765



Contact Information

Highest Ranking Employee	
Name:	Michael Fournier
Position:	Senior Director & General Manager TGO Canada
Address:	30 Novopharm Court, Toronto, ON M1B 2K9
Phone Number:	416-940-6446
E-mail:	Michael.Fournier@tevacanada.com

Public Contact	
Position:	Public Affairs Office
Address:	30 Novopharm Court, Toronto, ON M1B 2K9
Phone Number:	416-940-6416
E-mail:	public.affairs@tevacanada.com

Plan Substance Information

Toxic Substances for Which Facility Must Prepare Plan:	
Substance	CAS
Ethyl Alcohol	64-17-5

Toxic Substances for Which Facility Must Prepare Plan:	
Substance	CAS
Isopropyl Alcohol (IPA)	67-63-0

Plan Objectives and Feasibility

Objectives

TEVA has taken proactive initiatives to effectively use and reduce the loss of toxic substances (including ethyl alcohol and isopropyl alcohol) through process modification, spill/leakage prevention, inventory management systems and specific training programs. The facility has detailed material storage, handling and monitoring procedures to prevent the loss of the substance. The use of pharmaceutical materials and the manufacturing processes are strictly controlled to meet product safety and quality requirements.

In order to further reduce the use and loss of the subject substance, the facility will evaluate the identified potential options:

Ethyl Alcohol

- Evaluation of upgrading the dispensing system by using a closed collection vessel and changing the pumping system to minimize the loss of subject substance;
- Investigation of an option to use a solvent recovery system to collect alcohol releases for some of the larger pieces of drying equipment in production.

Isopropyl Alcohol

- Validation and microbiology study to investigate process improvement to reduce the use of IPA in equipment cleaning processes;
- Evaluation of upgrading the dispensing system by using a closed collection vessel and changing the pumping system to minimize the loss of subject substance;
- Investigation of an option to use a solvent recovery system to collect alcohol releases for some of the larger pieces of drying equipment in production.

Feasibility and Target

Based on the nature of the facility operation, no toxics reduction options have been identified as feasible for the facility in addition to the facility's current initiatives and plans. The company will continue to apply the industrial sector best practices and continuous improvement strategies to effective use and minimize the loss of the subject toxic substance. Toxics use reduction will be an ongoing effort for TEVA.

Toxic Substance Accounting

Used, Created and Contained in Product

Ethyl Alcohol and Isopropyl Alcohol are used in the facility in the production stage as an inactive material to make granules required by the product specification, and in cleaning activities as an approved detergent. Ethyl Alcohol and Isopropyl Alcohol are not created on-site and are not contained in any of our products. The 2017 year data are summarized below.

Ethyl Alcohol

Accounting Type	Usage (Kg)
Use	7800
Creation	0
Contained in Product	0

Isopropyl Alcohol

Accounting Type	Usage (Kg)
Use	6140
Creation	0
Contained in Product	0

Released, Disposed, Transferred and Transformed

The waste created in our processes are managed by an approved certified waste disposal company. There are no disposals or destruction on-site or recycling. There is some evaporation of alcohols during processing and cleaning. There are no releases to land or transformations into another substance. The 2017 year data are summarized below for comparison.

Ethyl Alcohol

Accounting Type	Usage (Kg)
Release (Air)	6966
Release (Water)	0
Release (Land)	0
Disposal (Off-site)	834
Disposal (On-site)	0
Destroyed (On-site)	0
Transferred (Recycling)	0
Transformed	0

Isopropyl Alcohol

Accounting Type	Usage (Kg)
Release (Air)	4382
Release (Water)	0
Release (Land)	0
Disposal (Off-site)	1758
Disposal (On-site)	0
Destroyed (On-site)	0
Transferred (Recycling)	0
Transformed	0

Toxic Reduction Plan Progress

Plan Implementation Progress

Ethyl Alcohol

Objective	Progress to date	Reductions*
Evaluation of upgrading the dispensing system by using a closed collection vessel and changing the pumping system to minimize the loss of subject substance;	A closed collection vessel design has been approved and is in the process of being fabricated.	Implementation in 2018
Investigation of an option to use a solvent recovery system to collect alcohol releases for some of the larger pieces of drying equipment in production.	This project is costly and has not yet been initiated.	In Process

*Exact reduction quantity due to the plan implementation is not available.

Isopropyl Alcohol

Objective	Progress to date	Reductions*
Validation and microbiology study to investigate process improvement to reduce the use of IPA in equipment cleaning processes;	Process improvements have been identified for equipment cleaning. All procedures are currently being updated to incorporate IPA reduction.	Implemented
Evaluation of upgrading the dispensing system by using a closed collection vessel and changing the pumping system to minimize the loss of subject substance;	A closed collection vessel design has been approved and is in the process of being fabricated.	Implementation in 2016
Investigation of an option to use a solvent recovery system to collect alcohol releases for some of the larger pieces of drying equipment in production.	This project is costly and has not yet been initiated.	In Process

*Exact reduction quantity due to the plan implementation is not available.

Toxic Reduction Plan Certifications

Ethyl Alcohol

TEVA CANADA LIMITED STOUFFVILLE PLANT - TOXICS REDUCTION PLAN FOR ETHYL ALCOHOL

PLAN CERTIFICATIONS
December 31, 2013

9.0 PLAN CERTIFICATIONS

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 31, 2013, I, Paolo Fiorino, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substance: Ethyl Alcohol (CAS 64-17-5)



December 31, 2013

Paolo Fiorino
Executive Director, Solid Dose Operations
30 Novopharm Court, Toronto, ON M1B 2K9
Phone: 416.940.6911
Fax: 416.940.6412
paolo.fiorino@tevacanada.com

Date

CERTIFICATION BY LICENSED PLANNER

As of December 31, 2013, I, Ruouu (Boris) Chen certify that I am familiar with the processes at TEVA Canada Limited that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 31, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

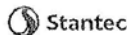
Toxic Substance: Ethyl Alcohol (CAS 64-17-5)



December 31, 2013

Ruouu (Boris) Chen (License No. TSRP0239)
Atmospheric Engineer, Environmental Services
Stantec
300 - 675 Cochrane Drive West Tower
Markham ON L3R 0B8
Phone: (905) 415-6351
boris.chen@stantec.com

Date



Isopropyl Alcohol

TEVA CANADA LIMITED STOUFFVILLE PLANT - TOXICS REDUCTION PLAN FOR ISOPROPYL ALCOHOL

PLAN CERTIFICATIONS
December 31, 2013

9.0 PLAN CERTIFICATIONS

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 31, 2013, I, Paolo Fiorino, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substance: Isopropyl Alcohol (CAS 67-63-0)



Paolo Fiorino
Executive Director, Solid Dose Operations
30 Novopharm Court, Toronto, ON M1B 2K9
Phone: 416.940.6911
Fax: 416.940.6412
paolo.fiorino@tevacanada.com

December 31, 2013

Date

CERTIFICATION BY LICENSED PLANNER

As of December 31, 2013, I, Ruouo (Boris) Chen certify that I am familiar with the processes at TEVA Canada Limited that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 31, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

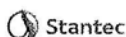
Toxic Substance: Isopropyl Alcohol (CAS 67-63-0)



Ruouo (Boris) Chen (License No. TSRP0239)
Atmospheric Engineer, Environmental Services
Stantec
300 - 675 Cochrane Drive West Tower
Markham ON L3R 0B8
Phone: (905) 415-6351
boris.chen@stantec.com

December 31, 2013

Date



9.35



Toxic Reduction Plan Annual Certification – Page 1

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

Teva Canada Ltd.

Certifying Official (or authorized delegate)

Fanche Lovacev

Report Submitted by

Michael Fournier

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 28/05/2018, I, Michael Fournier, 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

64-17-5

Ethanol

67-63-0

Isopropyl alcohol

Company Name

Teva Canada Ltd.

Highest Ranking Employee

Michael Fournier

Report Submitted by

Michael Fournier

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
2017	28/05/2018	Stouffville	Ontario	Stouffville	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 the facility is scheduled for closure within 12 months, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.