
Toxics Reduction Plan

Isopropanol
CAS: 67-63-0

Prepared for:
PaperWorks Packaging Group
65 Cascade Street,
Hamilton, Ontario
L8E 3B7

Prepared by:
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1.0 Introduction

PaperWorks Packaging Group (PPG) operates a manufacturing Facility located at 65 Cascade Street in Hamilton, Ontario (the "Facility"). PPG manufactures printed paperboard folding boxes and containers, generally utilized by the consumer packaging market.

The Facility is required to a prepare plan under The Toxics Reduction Act (and O. Reg 455/09); they have to account, report and prepare a plan on the reduction of specific toxic substances. The Facility has prepared plans for two (2) TRA Phase I substances: Methanol (CAS#: 67-56-1) and Toluene (CAS#: 108-88-3). The Facility is required to prepare and report for three (3) TRA Phase II substances: Isopropanol (CAS#: 67-63-0), Stoddard Solvent (CAS#: 8052-41-3), and 2-Butoxyethanol (CAS#: 111-76-2). This plan was developed to meet the requirements under O. Reg. 455/09 for Isopropanol (CAS#: 67-63-0). In addition to this document a plan summary will be submitted to the MOE, and a plan summary will be posted on the internet for public viewing.

1.1. *General Information*

This toxics reduction plan is for Isopropanol (CAS#: 67-63-0). The Facility uses several product applications that contain the Isopropanol toxic substance. One of these applications includes the use of isopropanol as an additive to the fountain solution used to keep ink off the background areas while the press is printing. Another is as a constituent of an industrial solvent (T4326 Special Wash) to clean the printing presses prior to the next printing job, and additionally as a constituent of the gloss and mate surface coatings.

The toxic substance is contained in this product and released to the atmosphere as a part 1A and part 4 substance (Total VOCs) through exhaust stacks and/or fugitive emissions and is expected to be 100% emitted.

Table 1- General Facility Information

NPRI Number	11795
O Reg 127/01 Number	N/A
Number of Full-Time Employee Equivalents	145
NAICS Code (2 digit)	31-33 - Manufacturing
NAICS Code (4 digit)	3231 - Printing and Related Support Activities
NAICS Code (6 digit)	323119 - Other Printing
UTM Coordinates	17 T 601117 m E 4788210 m N
Company Legal Name	PaperWorks Packaging Group
Company Trade Name	PaperWorks Packaging Group

1.2. Plan Contacts

A list of the individuals involved in the planning process is provided below:

<p>Public Contact: Mr. Leo Puzinas, Plant Manager Tel: (905) 573-4673 Fax: (905) 547-1878 Email: Leo.Puzinas@paperwrks.com</p>

2.0 Facility's Intent, Objectives and Targets

2.1. Use

The act requires that a Facility include a statement of intent to reduce the use of the prescribed toxic substance. If the Facility does not provide a statement of intent it must provide a reason why it does not intend or why it is not possible to reduce the use of the toxic substance. In addition to this, the Facility is required to provide a list of objectives.

Statement of intent:

PPG is committed to playing a leadership role in protecting the environment. The Facility intends to reduce the use of Isopropanol by 10% (w/w) by implementing the Equipment or Process Modifications as a toxic reduction option.

Reason why the Facility does not have a statement of intent: N/A

Objectives:

PPG prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. The Facility will continue to use the toxic substance in strict accordance with all applicable environmental regulations, and will continue to evaluate more opportunities to reduce the use of the toxic substance further as an ongoing project. One (1) reducing option has been identified and measures will be implemented to achieve the target reduction.

Quantity Target:

10% (w/w) reduction or 2,222 kg per year

Target Timeline:

October 2014.

Reason Why Toxic Substance is Used at the Facility:

For on-site use/ processing.

2.2. Creation

The act requires that a facility include a statement of intent to reduce the creation of the prescribed toxic substance. If the facility does not provide a statement of intent it must provide a reason why it does not intend or why it is not possible to reduce the creation of the toxic substance.

Statement of Intent:

The Facility does not have a statement of intent.

Reason Why the Facility Does Not Have a Statement of Intent:

The Facility does not create the subject substance at the Facility; therefore it is not required to provide a statement of intent on the creation of this substance.

Objectives:

Not applicable.

Quantity Target:

Not applicable.

Target Timeline:

Not applicable.

Reason Why Toxic Substance is Used at the Facility:

Not applicable.

3.0 Facility Goals

The Facility intends to reduce the use of Isopropanol by 10% (w/w). This will be achieved by the implementation of process automation replacing the current manual process in order to dispense the Isopropanol additive to the fountain solution, together with an accurate temperature controlled refrigeration system of the fountain solution. The automatic dispensing of Isopropanol in conjunction with the refrigeration system, including proper monitoring, and equipment maintenance, PPG will be able to reduce the use of Isopropanol by 10% (w/w). The implementation steps to achieve this reduction can be seen in Table 4. This reduction option will be fully implemented by October 2014.

4.0 Facility TRA Plan (info)

This plan summary is accurate, up to date and reflects the current facility version of the Toxic Reduction Plan.

5.0 Signed Certification Statements

Refer to the attached signed certification on the following page.

Certification by Highest-Ranking Employee:

As of 11th December 2013 [date], I, Roy Amm, 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, with the exception of the regulatory deadline, and the plan complies with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

ISOPROPANOL

Signed:



Roy Amm

PaperWorks Packaging Group

Certification by Toxic Substance Reduction Planner:

As of December 12, 2013, I, Franco DiGiovanni, certify that I am familiar with the processes at PaperWorks Packaging Group 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 12, 2013, and, with the exception of the regulatory deadline, that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

ISOPROPANOL

Signed:



Franco DiGiovanni

Airzone One Ltd.