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# Toxics Reduction Plan

**2-Butoxyethanol**  
**CAS: 111-76-2**

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

**Prepared by:**  
Airzone One Ltd.  
222 Matheson Boulevard East  
Mississauga, Ontario  
L4Z 1X1

December 2013

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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 2-Butoxyethanol (CAS#: 111-76-2). 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 2-Butoxyethanol (CAS#: 111-76-2). The facility uses several product applications that contain 2-Butoxyethanol the toxic substance. One of these applications is as an additive to the fountain solution concentrate used to keep ink off the background areas while the press is printing and protect the plate(s) when the press stops. Additionally the substance is used as a constituent of the blanket and roller wash to clean the blankets and rollers prior to the usage in the next printing job.

The toxic substance is contained in this product and released to the atmosphere as a part 4 substance (Total VOCs, with further speciation as a part 5 substance) through exhaust stacks and/or fugitive emissions and is expected that 100% of the substance used is emitted.

**Table 1- General Facility Information**

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

**1.2. Plan Contacts**

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

**Public Contact:**

Mr. Leo Puzinas,  
 Plant Manager  
 Tel: (905) 573-4673  
 Fax: (905) 547-1878  
 Email: [Leo.Puzinas@paperwrks.com](mailto:Leo.Puzinas@paperwrks.com)

## **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 2-Butoxyethanol by 21% (w/w) by implementing a Material or Feedstock Substitution 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:**

21% (w/w) reduction or 440 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 2-Butoxyethanol by 21% (w/w). This will be achieved by the implementation of a new roller and blanket wash product containing no 2-Butoxyethanol in the process. This product substitution in conjunction with proper monitoring, and equipment maintenance, PPG will be able to reduce the use of 2-Butoxyethanol by 21% (w/w). A summary of the implementation steps that are required 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.

Signed:  **2-BUTOXYETHANOL**  
Roy Amm  
PaperWorks Packaging Group

**Certification by Toxic Substance Reduction Planner:**

As of November 18, 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 November 18, 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.

**2-BUTOXYETHANOL**  
Signed:   
Franco DiGiovanni  
Airzone One Ltd.