

## **2-Butoxyethanol (111-76-2) Toxic Reduction Summary Plan for Dimachem Inc.**

Dimachem currently has three Phase I reduction plans and three Phase II reduction plans based on the criteria set out in the Toxics Reduction Act, 2009.

These substances are:

### **Phase I**

Zinc (and its compounds)

Manganese (and its compounds)

Sulphuric acid (7664-93-9)

### **Phase 2**

Nitrate (10377-66-9)

Nitric acid (7697-37-2)

Sodium nitrate (7632-00-0)

### **Facility Information:**

Facility Name:	Dimachem Inc
NPRI Identification Number:	0000001951
Two Digit NAICS Code:	32
Four Digit NAICS Code:	5999
Six Digit NAICS Code:	325999
Number of Full-time Employees:	62
UTM Spatial Coordinated	Latitude: 42.2731 Longitude: -82.9971

### **Owner of the Facility Information**

Name:	Brian Patton
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### **Highest Ranking Employee at the Facility Information**

Name:	Mike Moore
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### **Plan Contact (Coordinating/Preparing) Information**

Name:	Jill Desjardins
Address:	3258 Marentette Avenue, Windsor, ON, N8X 4G4
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## Statement of Intent and Objective of the Plan

- Statement of Intent:** 2-Butoxyethanol is currently used by Dimachem in three processes. We do not intend to reduce our use of 2-butoxyethanol at the facility at this time. This facility does not create 2-butoxyethanol so the plan will not address reducing its creation.
- Objective:** Dimachem is committed to manufacturing and distributing quality products in a responsible manner that protects employees, neighbours, customers, visitors, stakeholders and the environment. Dimachem will strive to reduce the amount of 2-butoxyethanol that is released to air as a result of our onsite waste treatment process, almost all of the 2-butoxyethanol used is contained in products shipped. This plan determined the technical and economical feasibility of each option to determine which, if any, are viable for implementation.
- Target:** Dimachem does not intend to reduce the use of 2-butoxyethanol at this time.

### Description of why 2-butoxyethanol is used

Dimachem is a chemical manufacturer. 2-butoxyethanol is used on site to manufacture chemical blends that are shipped off-site for use at customer's facilities. During the manufacturing process 2-butoxyethanol is not created or destroyed; it remains as 2-butoxyethanol in the finished process.

### Options to be Implemented

The following option has been identified for implementation to reduce release of 2-butoxyethanol.

- Reuse lab retain samples containing 2-butoxyethanol in production batches

A review is going to be done with customers to determine if any products can be reformulated to use a different material or adjusted to use lower amounts of 2-butoxyethanol. An estimated reduction cannot be determined until approval is received. Training or Improved Operating Practices were put in place for previous plans to review standard deviation to prevent product non conformance.

### On-site Reuse or Recycling

Reuse Lab Retain Samples Containing 2-butoxyethanol in Production Batches

The following summarizes the reduction amount and timeline associated with the implementation of reusing lab retains in production batches

**Estimate of reduction of 2-butoxyethanol by the Implementation of Option 5**

<b>Type</b>	<b>Estimated Reduction in kg (per cent)</b>
Use	0 kg (0 per cent)
Creation	0 kg (0 per cent)
Release to air	0.035 kg (25 per cent)
Release to water	0 kg (0 per cent)
Release to land	0 kg (0 per cent)
Disposal off-site	0 kg (0 per cent)
Disposal on-site	0 kg (0 per cent)
Transfer off-site for recycling	0 kg (0 per cent)
Destroyed	0 kg (0 per cent)
Contained in product	↑6.8 kg (0.03 per cent)

<b>Step</b>	<b>Target Completion Date</b>
Create a list of all retains that contain nitrate ion	December 1, 2015
Train lab staff on sample segregation	
Train production on proper way to add samples to mixer	

This summary accurately reflects the current version of the plan.

Recommendations and plan certification were done by  
 Jill Desjardins  
 Planner License Number TSRP0147

**Plan Certifications for 2-butoxyethanol (111-76-2)**

As of November 20, 2015, I, Michael Moore, certify that I have read the report on the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

2-butoxyethanol (111-76-2)



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Michael Moore, Dimachem Inc  
(Highest Ranking Employee)

11/20/15

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Date

As of November 20, 2015, I, Jill Desjardins certify that I am familiar with the processes at Dimachem Inc 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 (insert version date) and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

2-butoxyethanol (111-76-2)



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Jill Desjardins  
Toxic Substance Reduction Planner

11/20/15

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Date