

**Toxics Reduction Plan Summary:
PepsiCo Foods Canada ULC., Cambridge Site
for the 2014 Reporting Year**

**(Prepared in Compliance with the Toxics Reduction Act, 2009
& Ontario Regulation 455/09)**

April 2016

Ref: 3150-08

Prepared for:



PepsiCo Foods Canada ULC., Cambridge site

Cambridge, Ontario

Prepared by:



Enviro-Stewards
Engineers & Scientists

Enviro-Stewards Inc.
1 Union Street
Elmira, Ontario

BASIC FACILITY INFORMATION		
Substance name(s) & CAS No.(s)	Substance Name	CAS No.
	Peracetic acid	79-21-0
NPRI ID No.	4511	
O. Reg 127/01 ID No.	-	
Legal name of owner	PepsiCo Canada ULC.	
Trade name of owner	Frito Lay Canada	
Legal name of operator (if different)	-	
Trade name of operator (if different)	-	
Mailing address of owner	8 th Floor, 5550 Explorer Drive, Mississauga L4W 0C3	
Mailing address of operator (if different)	1001 Bishop Street North, Cambridge N3H 4T7	
2-digit NAICS code	31	
4-digit NAICS code	3119	
6-digit NAICS code	311919	
Spatial coordinates (UTM & NAD83)	Latitude: 43.39490 Longitude: -80.33250 Datum: 1983	
Parent Company (if applicable)	-	
Legal name	-	
Mailing address (if different from facility)	-	
Percent owned by parent company	-	
Canada Customs & Revenue Agency No.	-	
Mailing address	-	
TECHNICAL CONTACT		
Name	Robert Burgess	
Position	Environmental Coordinator	
Phone number	(519) 650-6108	
Email	Robert.burgess@pepsico.com	
Mailing address (if different)	-	
PERSON WHO COORDINATED THE PLAN		
Name	Lloyd Hipel	
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PERSON WHO PREPARED THE PLAN		
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HIGHEST RANKING EMPLOYEE

Name	Calum I. MacLeod
Position	Sr. Director Operations - Cambridge
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Mailing address (if different)	-

PLAN EVALUATION SUMMARY

Substance name	Substance Name	CAS No.
	Peracetic acid	79-21-0
Statement of Intent & Objectives	PepsiCo will evaluate multiple options to reduce its use of peracetic acid through equipment modification, spill and leak prevention, improved inventory techniques, and improved operating practices.	

EVALUATION OF IMPLEMENTATION OPTIONS

Reduction options to be implemented*	Estimated Reduction (tonnes/yr)	Percent Reduction (%)	Category	Steps to implement	Years to achieve reduction
3 Evaluate centrifuge pilot study for removing more starch from recycled water to reduce amount of peracetic acid reacting with organics	5.6	50%	Use	Planning - Q4 2016 Pilot study - Q1 2017 - Q2 2017 Pilot evaluation - Q3 2017 Detailed design - Q4 2017 - Q1 2018 Plan in CAPEX - Q1 2018 - Q4 2018 Installation - Q1 2019 Commissioning - Q2 2019	5
4 Evaluate leak detection system (moisture sensor) in spill pallets to automatically trigger solenoid to shut off valve	0.22	2%	Use	Already completed	0
6 b) Evaluate pressure sensor to notify when Tsunami tote runs out to prevent potential overdosing (will also improve process)	0.22	2%	Use	Planning - Q3 2016 Detailed design - Q4 2016 Plan in CAPEX - Q1 2017 - Q4 2017 Installation - Q1 2018	4
7 a) Evaluate dosing pump for defoamer and/or foam destruction nozzles	1.7	15%	Use	Planning - Q4 2016 Detailed design - Q1 2017 - Q2 2017 Plan in CAPEX - Q3 2017 - Q2 2018 Installation - Q3 2018 Commissioning - Q4 2018	4
b) Prevent peels and drips from entering wash box and thus from entering recycling system (e.g. cover or screen)	0.22	2%	Use	Planning - Q3 2016 Detailed design - Q3 2016 Plan in CAPEX - Q4 2016 - Q3 2017 Installation - Q4 2017	3
Total reductions:		7.9		71%	

Notes:

* **7 TRA Categories:**

- 1 Material or feedstock substitution
- 2 Product design or reformulation
- 3 Equipment or process modification
- 4 Spill & leak prevention
- 5 On-site reuse or recycling
- 6 Improved inventory or purchasing techniques
- 7 Training or improved operating practices