

Toxic Substance Reduction Plans Summary For

Ammonia (total) (CAS # NA-16)
Particulate Matter 2.5 (CAS# NA-M10)
Particulate Matter 10 (CAS# NA-M09)
Sulphuric Acid (CAS# 7664-93-9)

Maple Leaf Foods Inc. 321 Courtland Avenue Kitchener, Ontario N2G 3X8

> December 6, 2013 Pinchin File: 82392

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1.0 BASIC FACILITY INFORMATION

Substance Information				
Su	ibstance Name	CAS#		
Ammonia (Total)		NA-16		
Particulate Matter 2.5		NA-M10		
Particulate Matter 10		NA-M09		
Sulphuric Acid		7664-93-9		
Facility Information				
Company Name	Maple Leaf Consumer Foods Inc.	Maple Leaf Consumer Foods Inc.		
Facility Address	321 Courtland Avenue, Kitchener, ON	321 Courtland Avenue, Kitchener, ON, N2G 3X8		
Site Coordinates (main entrance of site)	17 T 542095.31 mE 4809645.4 mN			
NPRI ID	1531			
MOE ID	n/a	n/a		
Number of Full-Time Employees in 2012	1300			
2-Digit NAICS Code	31 - Manufacturing			
4- Digit NAICS Code	3116 - Meat Product Manufacturing			
6-Digit NAICS Code 311614 - Rendering and Meat Processing from Carcasses		sing from Carcasses		
Facility Contact Information	tion			
Public Contact	Amber Nicholson Environmental Project Coordinator Phone: 519-741-5000 ext 7067 Fax: (519) 749-7404	E-mail: amber.nicholson@mapleleaf.com Address: Same as facility address		

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2.0 STATEMENT OF INTENT

2.1 Ammonia

The facility does not intend to reduce the use of ammonia until the facility shuts down permanently in the near future. Ammonia is currently the most cost efficient coolant and the most effective coolant for the facility size.

2.2 Particulate Matter (PM2.5 and PM10)

The facility does not intend to reduce the creation of particulate matter (PM2.5 and PM10) until the facility shuts down permanently in the near future.

2.3 Sulphuric Acid

Prior to shutdown, the facility does not intend to reduce the use of sulphuric acid because it is used to treat production wastewater to meet by-law requirements. If usage was reduced, the facility could potentially exceed the parameters outlined in the Sewer-Use By-Law.

3.0 OBJECTIVES OF THE PLAN & ANY TARGETS

Maple Leaf Foods prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. The objectives of this plan are to assess the technical and economic feasibility of options, if any are identified, and to determine which are viable for implementation.

4.0 DESCRIPTION OF WHY THE TOXIC SUBSTANCE IS USED OR CREATED

4.1 Ammonia

Ammonia is a substance used as a refrigerant/coolant in the refrigeration process. It is required to operate the cooling towers to cool 90% of the processing facility. The ammonia flows through the cooling equipment in a closed-loop system and is not released, transferred, destroyed, disposed, or contained in product.

4.2 Particulate Matter (PM2.5 and PM10)

Processes related to the creation of Particulate Matter 2.5 and Particulate Matter 10 include the smokehouses, cooling towers, welding, and natural gas-fired heating equipment. Particulate matter is created as a by-product by all of these processes. The prime source that creates more than 95% of the total PM2.5 and total PM10 is the smokehouse process. Therefore this plan will focus on the smokehouse process.

4.3 Sulphuric Acid

Sulphuric acid is used as a wastewater treatment additive to control water output to meet Sewer-Use By-Law requirements. Sulphuric acid is neutralized (destroyed) in the equalization process.

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It maintains the wastewater pH to a level that is acceptable to the Region of Waterloo prior to further processing in their systems.

5.0 OPTIONS TO BE IMPLEMENTED (OR STATEMENT THAT NONE ARE TO BE IMPLEMENTED)

The facility will be shutting down operations permanently at an undisclosed date, in the next 18 months. Therefore, no viable options could be identified and none will be implemented.

6.0 ESTIMATED REDUCTIONS UNDER THE OPTIONS SELECTED (IF ANY) Not applicable.

7.0 TIMELINES FOR ACHIEVING ESTIMATED REDUCTION (IF ANY) Not applicable.

8.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plans dated December 6, 2013, prepared for the substances listed in Section 1.0 of this Summary.

9.0 COPY OF CERTIFICATIONS

8.0 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 20, 2013, I, Rick Larose, certify that I have read the toxic substance reduction plan for the toxic substances 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.

Ammonia, Plan Prepared December 6, 2013
Sulphuric acid, Plan Prepared December 6, 2013
Particulate Matter 2.5, Plan Prepared December 6, 2013
Particulate Matter 10, Plan Prepared December 6, 2013

Rick Larose | Plant Manager

Maple Leaf Foods Inc.

9.0 CERTIFICATION BY LICENSED PLANNER

As of December 17, 2013, I, Connie Lum certify that I am familiar with the processes at Maple Leaf Foods that use the toxic substances 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 toxic substance reduction plans referred to below for the toxic substances and that the plans comply with that Act and Ontario Regulation 455/09 (General) made under that Act.

Ammonia, Plan Prepared December 6, 2013

Sulphuric acid, Plan Prepared December 6, 2013

Particulate Matter 2.5, Plan Prepared December 6, 2013

Particulate Matter 10, Plan Prepared December 6, 2013

Connie Lum, TSRP# 0089

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Pinchin Master Report Guide, Ver. 1, May 2007

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