

TOXIC SUBSTANCE REDUCTION PLAN SUMMARY (2012-2018 data)

1. OWNER AND OPERATOR OF FACILITY:

GAY LEA FOODS COOPERATIVE LIMITED
5200 ORBITOR DRIVE
MISSISSAUGA, ONTARIO
L4W 5B4

2. FACILITY:

GAY LEA FOODS COOPERATIVE LIMITED:
GUELPH FACILITY
21 Speedvale Avenue, West
Guelph, Ontario,
N1H 1J5

CLAYSON FACILITY
100 Clayson Road,
Weston, Ontario, M9M 2G7

LOGLIFE FACILITY
180 Ormont Drive,
Weston, Ontario, M9L 1N7

3. CONTACT INFORMATION:

Henry Grbac
Director of Occupational Health, Safety, Environmental and Sustainability
Gay Lea Foods Co-operative Ltd.
Direct 647-277-4309
5200 Orbitor Drive, Mississauga, ON L4W 5B4
Email: hgrbac@gayleafoods.com
www.gayleafoods.com

4. NPRI IDENTIFICATION NUMBER:

- a. NPRI (Clayson facility): 11520
- b. NPRI (Guelph facility): 004423
- c. NPRI (Longlife facility): 007693

5. NUMBER OF FULL-TIME EMPLOYEE EQUIVALENTS:

- a. Clayson facility: 106
- b. Guelph facility: 94
- c. Longlife facility: 149

6. TWO, FOUR AND SIX DIGIT NAICS CODE:

Canadian SIC: 10 - Food Industries

Canadian SIC: 1049 - Other Dairy Prods. Inds.

American SIC: 2026 - Fluid Milk

NAICS 2 Code: 31-33 – Manufacturing

NAICS 4 Code: 3115 - Dairy Product Mfg.

NAICS 6 Code: 311515 - Dairy Product

7. SPATIAL COORDINATES:

- a. Clayson facility:
 - i. Latitude: 43.72380
 - ii. Longitude: -79.52570
- b. Guelph facility:
 - i. Latitude: 43.55810
 - ii. Longitude: -80.27040
- c. Longlife facility:
 - i. Latitude: 43.76680
 - ii. Longitude: -79.53980

8. TOXIC SUBSTANCE:

SULPHURIC ACID

CAS Number: 7664-93-9

9. SUMMARY OF TRACKING AND QUANTIFICATION

Year	Substance	Guelph Plant (Amount)	Change	Reason for change
2012	Sulphuric Acid	39 tonnes	 3% (or 1 tonne increase)	increase in production
2013	Sulphuric Acid	40 tonnes	 35% (or 14 tonnes increase)	increase in production
2014	Sulphuric Acid	54 tonnes	 13% (or 7 tonnes decrease)	decrease in production
2015	Sulphuric Acid	47 tonnes	 no change	NA
2016	Sulphuric Acid	47 tonnes	 60% (or 28 tonnes decrease)	Using a different type of polymer which works at a higher pH; thus lower amounts of sulphuric acid is needed
2017	Sulphuric Acid	19 tonnes	 17% (or 4 tonnes increase)	increase in production
2018	Sulphuric Acid	23 tonnes		
Year	Substance	Clayson Plant (Amount)	Change	Reason for change
2017	Sulphuric Acid	27 tonnes	 69% (or 60 tonnes increase)	Implementation of a WWTP (Waste Water Treatment Plant)
2018	Sulphuric Acid	87 tonnes		
Year	Substance	Longlife Plant (Amount)	Change	Reason for change
2017	Sulphuric Acid	44 tonnes	 44% (or 35 tonnes increase)	Implementation of a WWTP (Waste Water Treatment Plant)
2018	Sulphuric Acid	79 tonnes		

10. STATEMENT OF INTENT

Gay Lea Foods is committed to the environmental protection programs and projects that aim to protect the environment reduce pollution and safeguarding human health. Our management has made it a priority to participate in toxics reduction to protect our workers from exposure to harmful substances and to keep the environment clean for future generations. Therefore, it is our intent to reduce toxic substances used, created and released at all of our manufacturing facilities.

11. DESCRIPTION OF OPTIONS, ESTIMATED REDUCTIONS AND PROJECTIONS OF EFFECTIVENESS

The goal of the toxic substance reduction plan development is to reduce the use and release of sulphuric acid in the operations of our Waste Water Treatment Plant. A secondary objective is to identify toxic reduction options that will reduce the excessive exposure of sulphuric acid to employees to protect their health by reducing the amount that is used annually.

Every stage of the manufacturing operation what can possible use, create, dispose, transform, destroy, release (to air, land, and water), dispose, or transfer offsite of sulphuric acid was assessed and identified. Each stage was then divided into one or more possible process. The amount of substance was tracked and quantified using process flow diagram and best available methods of quantification. All the options for sulphuric acid reduction was assessed and reviewed to identify areas for reduction.

No option(s) for toxic reduction is to be implemented, as option for sulphuric acid is not available at this particular time.

12. EXPLANATION OF WHY NO OPTION IMPLEMENTATION – No option can be identified for each of the 7 toxic reduction categories for sulphuric acid reduction. Sulphuric acid is used for effective pH control added in wastewater treatment. However, progression of emerging technologies or alternate material that can reduce the amount used, or and can be substituted for less or non-toxic effect other than sulphuric acid will be monitored.