

TOXIC SUBSTANCE REDUCTION PLAN SUMMARY (2012-2016 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

3. CONTACT INFORMATION:

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4. NPRI IDENTIFICATION NUMBER: 004423

5. NUMBER OF FULL-TIME EMPLOYEE EQUIVALENTS: 94

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:

Guelph facility:




- i. Latitude: 43.55810
- ii. Longitude: -80.27040

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 tonnes increase)	increase in production
2013	Sulphuric Acid	40 tonnes		
2014	Sulphuric Acid	54 tonnes	 35% (or 14 tonnes increase)	increase in production
2015	Sulphuric Acid	47 tonnes		
2016	Sulphuric Acid	47 tonnes	 13% (or 7 tonnes decrease)	decrease in production
			no change	NA

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.