TOXICS REDUCTION ACT – Public Summary Report – 2016 Reporting Year

Parmalat Canada Inc. – Winchester Plant

A. FACILITY INFORMATION

The Parmalat Winchester plant operates as a dairy product (cheese, butter, milk powder) manufacturing facility. The main facility processes consist of raw material receiving and storage, pre-processing, production and final storage and shipping.

Address	490 Gordon Street Winchester, Ontario K0C 2K0
Spatial Coordinates	Zone 18, 472172 m E, 4993367 m N
NPRI/MOE IDs	NPRI = 3840 MOE = 8160
No. of Employees	265
Primary Operation	Dairy Production Plant
NAICS Code(s)	31 – Manufacturing 3115 – Dairy Product Manufacturing 311515 – Butter, Cheese and Dry and Condensed Dairy Product Manufacturing
Facility Contact	Mr. Tony Cugliari Parmalat Canada Inc. VP, Legal Affairs and General Counsel 405 The West Mall, 10th Floor Etobicoke, Ontario M9C 5J1 Phone: (416) 620-3639 Email: tony_cugliari@parmalat.ca
Parent Company	Parmalat Canada Inc. 405 The West Mall, 10th Floor Etobicoke, Ontario M9C 5J1

B. TOXIC SUBSTANCE ACCOUNTING

Substances Reported	CAS#	Primary Use/Source
NPRI Part 1 Substances		
Nitric acid	7697-37-2	Clean-in-place chemicals
Sulphuric acid	7664-93-9	Wastewater treatment
Total ammonia	NA	Control culture growth in product
Total phosphorus	NA	Effluent discharges to wastewater treatment plant
PM_{10}	NA	Pollution control devices, fuel combustion
$PM_{2.5}$	NA	Pollution control devices, fuel combustion

Accounting Details

Substance/Category	Accounting Quantities				Reason for Change
	2015	2016	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Nitric acid					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	(-)11.76	Decreased usage of products containing nitric acid.
Created	0	0	0	0	n/a
Contained in Product	0	0	0	0	n/a
Released to Air	0	0	0	0	n/a
Released to Water	0	0	0	0	n/a
Transfer for Disposal	0	0	0	0	n/a
Transfer for Recycle	0	0	0	0	n/a

Substance/Category	Accounting Quantities				Reason for Change
	2015	2016	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Sulphuric acid					
Used	>100 to 1,000	>100 to 1,000	(-)>100 to 1,000	(-)46.3	Decreased usage for neutralization of wastewater.
Created	0	0	0	0	n/a
Contained in Product	0	0	0	0	n/a
Released to Air	0	0	0	0	n/a
Released to Water	0	0	0	0	n/a
Transfer for Disposal	0	0	0	0	n/a
Transfer for Recycle	0	0	0	0	n/a
Total ammonia					
Used	>1 to 10	>1 to 10	(+)>1 to 10	(+)25.99	Increased usage of ammonia in production process.
Created	>1 to 10	>1 to 10	(+)<1	(+)1.95	Increased quantity created in wastewater treatment process.
Contained in Product	0	0	0	0	
Released to Air	0	0	0	0	
Released to Water	<1	<1	(+)<1	(+)78.21	Increased quantity in wastewater discharges.
Transfer for Disposal	>1 to 10	>1 to 10	(-)<1	(-)2.65	Decreased quantity in biosolids disposed off-site.
Transfer for Recycle	0	0	0	0	n/a

Substance/Category	Accounting Quantities				Reason for Change
	2015	2016	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Total phosphorus					
Used	>10 to 100	>10 to 100	(+)>1 to 10	(+)16.85	Increased usage of phosphorous in production process.
Created	0	0	0	0	n/a
Contained in Product	0	0	0	0	n/a
Released to Air	0	0	0	0	n/a
Released to Water	<1	<1	(-)<1	(-)36.67	Decreased quantity of phosphorus in wastewater discharges.
Transfer for Disposal	>10 to 100	>10 to 100	(+)>1 to 10	(+)17.1	Increased quantity in biosolids disposed off-site.
Transfer for Recycle	0	0	0	0	
PM_{10}					
Created	>10 to 100	>10 to 100	(+)>1 to 10	(+)9.80	Increased run time of bagging stations.
Released to Air	>1 to 10	>1 to 10	(+)<1	(+)7.48	Increased run time of dust collection equipment.
$PM_{2.5}$					
Created	>10 to 100	>10 to 100	(+)<1	(+)0.21	Increased run time of bagging stations.
Released to Air	>1 to 10	>1 to 10	(+)<1	(+)0.61	Increased run time of dust collection equipment.

C. TOXIC SUBSTANCE REDUCTION PLANNING

Objectives & Targets

Substance	Objectives & Targets	Reduction Option Progress
Nitric acid	While Parmalat Canada Inc. has not identified any reduction options as technically and economically feasible, the facility will continue to monitor industry standards for the use of nitric acid in CIP systems.	No reduction options to be implemented.
Sulphuric acid	Sulphuric acid reductions will be achieved by reducing the amount of water that is stored in the on-site storage lagoons where the pH rises, requiring the use of more sulphuric acid to reduce the pH prior to discharge.	Due to issues with the efficiency of the wastewater treatment plant, we were unable to implement the steps described in the plan.
Total ammonia	While Parmalat Canada Inc. has not identified any reduction options as technically and economically feasible, the facility will continue to monitor industry standards for neutralizing agents.	No reduction options to be implemented.
Total phosphorus	While Parmalat has not identified any technically or economically feasible options for the reduction of phosphorus, the facility will continue on-going efforts to reduce the amount of phosphorus that enters the environment and to support efforts to mitigate the impacts of phosphorus in the South Nation Watershed.	No reduction options to be implemented.
PM_{10}	As the substance is the product produced at the facility, Parmalat Canada Inc. does not intend to implement any options to reduce the substance. However, the facility will continue to pursue opportunities to reduce the discharge of the substance to the environment.	No reduction options to be implemented.

Substance	Objectives & Targets	Reduction Option Progress
$PM_{2.5}$	As the substance is the product produced at the facility, Parmalat Canada Inc. does not intend to implement any options to reduce the substance. However, the facility will continue to pursue opportunities to reduce the discharge of the substance to the environment.	No reduction options to be implemented.

Annual Report Certification Statement

As of June 12th, 2017, I certify that I have read the report(s) on the toxic substance reduction plan(s) for Nitric acid, Sulphuric acid, Total ammonia, Total phosphorus, PM_{10} and $PM_{2.5}$ and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Bruce Shurtleff, Plant Manager

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(Digital signature on file)