

TOXICS REDUCTION ACT – Public Summary Report – 2013 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	207
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, 10 th Floor Etobicoke, Ontario M9C 5J1 Phone: (416) 620-3639 Email: tony_cugliari@parmalat.ca
Parent Company	Parmalat Canada Inc. 405 The West Mall, 10 th Floor Etobicoke, Ontario M9C 5J1

TOXICS REDUCTION ACT – Public Summary Report – 2013 Reporting Year
 Parmalat Canada Inc. – Winchester Plant



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
	2012	2013	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Nitric acid					
Used	>100 to 1,000	>100 to 1,000	(+)>1 to 10	(+)1.3	n/a – quantities approximately the same
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

TOXICS REDUCTION ACT – Public Summary Report – 2013 Reporting Year
 Parmalat Canada Inc. – Winchester Plant



Substance/Category	Accounting Quantities				Reason for Change
	2012	2013	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Sulphuric acid					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	(-)28.7%	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	(-)>0 to 10	(-)7.2	Decreased usage of ammonia in production process.
Created	>10 to 100	>10 to 100	(+)>1 to 10	(+)8.0	Increased quantity created in wastewater treatment process
Contained in Product	0	0	0	0	
Released to Air	0	0	0	0	
Released to Water	0.342	0.838	(+)0.496	(+)>100	Increased quantity in wastewater discharges
Transfer for Disposal	18.01	18.98	(+)0.970	(+)5.4	Increased quantity in biosolids disposed off-site
Transfer for Recycle	0	0	0	0	n/a

TOXICS REDUCTION ACT – Public Summary Report – 2013 Reporting Year

Parmalat Canada Inc. – Winchester Plant



Substance/Category	Accounting Quantities				Reason for Change
	2012	2013	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Total phosphorus					
Used	0	0	0	0	n/a
Created	>10 to 100	>10 to 100	(-)>1 to 10	(-)-3.4	n/a – quantities approximately the same
Contained in Product	0	0	0	0	n/a
Released to Air	0	0	0	0	n/a
Released to Water	0.174	0.133	(-)-0.041	(-)-23.6	Decreased quantity of phosphorus in wastewater discharges
Transfer for Disposal	31.84	30.83	(-)-1.010	(-)-3.2	n/a – quantities approximately the same
Transfer for Recycle	0	0	0	0	
PM₁₀					
Created	>10 to 100	>10 to 100	(+)>10 to 100	(+)39.3	Increased powder production and run times of dust collectors / cyclones
Released to Air	4.368	4.642	(+)0.274	(+)6.3	Increased powder production and run times of dust collectors / cyclones
PM_{2.5}					
Created	>10 to 100	>10 to 100	(+)>10 to 100	(+)43.2	Increased powder production and run times of dust collectors / cyclones
Released to Air	3.893	4.166	(+)0.273	(+)7.0	Increased powder production and run times of dust collectors / cyclones

TOXICS REDUCTION ACT – Public Summary Report – 2013 Reporting Year
 Parmalat Canada Inc. – Winchester Plant



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	Reduce the use of sulphuric acid by reducing the amount of water that is stored in the on-site lagoons, where pH rises, requiring the use of more sulphuric acid to reduce the pH prior to discharge.	MOE ECA approval received in August 2013. Capital works anticipated to be implemented by the end of 2014. It is anticipated that direct discharge will result in a reduction in the use of sulphuric acid.
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.

TOXICS REDUCTION ACT – Public Summary Report – 2013 Reporting Year
 Parmalat Canada Inc. – Winchester Plant



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 May 26, 2014, 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, PM₁₀ 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.

Stephen Wilson
 Director, Plant Operations

(Digital signature on file)