

Summary Letter as required under Toxics Reduction Act and Ontario Regulation 455/09

BIOX Canada Limited – Hamilton

NPRI ID: 11700
 41 Oliver Street
 Hamilton, ON L8L 4K9
 Canada
 Number of employees: 28

Contact Information

Nak Paik
 Position: Vice President, Operations
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Geographical Coordinates

Latitude: 43.26910
 Longitude: -79.84250
 Datum: 1983

Standard Industrial Classifications

- NAICS 2 Code: 31-33 – Manufacturing
- NAICS 4 Code: 3251 – Basic Chemical Manufacturing
- NAICS 6 Code: 3251900 – Other Basic Organic Chemical Manufacturing

2016 Substance Information (tonnes)

Substance Name	CAS Number	Amount Entering Process	Amount Created	Amount Released to Air	Amount Disposed	Amount Contained in Product
Methanol	67-56-1	1,000 to 10,000	0	1.87	32.66	0 to 1
Sulphuric Acid	7664-93-9	100 to 1,000	0	0	0.92	0
PM ₁₀	NA-M09	0	0 to 1	0.82	0	0

For comparison purposes, the following table provides a summary of the 2015 and 2016 TRA Accounting values.

Comparison of 2015 to 2016 Reportable TRA Substances (tonnes)

Substance Name	CAS Number	Amount Entering Process	Amount Created	Amount Released to Air	Amount Disposed	Amount Contained in Product
Methanol 67-56-1	2015	1,000 to 10,000	0	1.84	13.2	0 to 1
	2016	1,000 to 10,000	0	1.87	32.66	0 to 1
	Change in % and Tonnes	Increase of 6.28% or 351 tonnes	N/A	Increase of 1.63% or 0.03 tonnes	Increase of 158.18% of 20.01 tonnes	No change
	Rationale	No Significant Change	N/A	No Significant Change	Methanol used onsite increased.	No Significant Change
	The glycerin refinery was installed as per the plan. Methanol use has increased by 4.13% in 2016 compared to 2011 with a 11.4% production increase.					
Sulphuric Acid 7664-93-9	2015	100 to 1,000	0	0	2.77	0
	2016	100 to 1,000	0	0	0.92	0
	Change in % and Tonnes	Increase of 6.44% or 51 tonnes	N/A	N/A	Decrease of 16.36% or 0.18 tonnes	N/A
	Rationale	No Significant Change	N/A	N/A	Decreased maintenance activities	N/A
	No plans to reduce the use of Sulphuric Acid.					
PM₁₀ NA-M09	2015	0	0 to 1	0.80	0	0
	2016	0	0 to 1	0.82	0	0
	Change in % and Tonnes	N/A	Increase of 2.5% or 0.02 tonnes	Increase of 2.5% or 0.02 tonnes	N/A	N/A
	Rationale	N/A	No Significant Change	No Significant Change	N/A	N/A
	On target for implementing actions in order to achieve a 1.8% reduction for the creation of PM ₁₀ .					

Certification

As of April 19, 2017, I, Nak Paik, certify that I have read the report on the toxic substance reduction plan for the toxic substances referred to above and am familiar with its contents, and to my knowledge the information contained in the report is factually accurate and the report complies with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

Signed April 19th, 2017. Original signature is on file at the facility.



Nak Paik, Vice President, Operations
BIOX Canada Ltd.