



Public Summary Report Toxic Substance Reduction Plans

Nemak of Canada
Windsor Aluminum Plant

December 17, 2015



BASIC FACILITY INFORMATION

Substances Included in the Plan

- Particulate Matter (CAS No. NA – M08)
- Heavy Aromatic Solvent Naphtha (CAS No. 64742-94-5)
- Heavy Alkylate Naphtha (CAS No. 64741-65-7)

Facility Identification and Site Address

Company Name	Nemak of Canada Corporation	
Facility Name	Windsor Aluminum Plant	
Facility Address	Physical Address:	Mailing Address:
	4600 G.N. Booth Drive Windsor, ON N9C 4G8	Same as physical address
Spatial Coordinates of Facility	UTM Easting 328217, UTM Northing 4682614 (NAD1983)	
Number of Employees	298	
NPRI ID	4416	
Ontario MOECC ID Number	5879	
Primary North American Industrial Classification System Code (NAICS)		
2 Digit NAICS Code	33 (Manufacturing)	
4 Digit NAICS Code	3315 (Foundries)	
6 Digit NAICS Code	331529 (Non Ferrous Foundries except Die Casting)	
Facility and Planner Contact Information		
Facility Public Contact	Raul Monroy	Nemak of Canada
	Email: raul.monroy@nemak.com	Same as Parent Company
	Phone: (519) 250-2540	
Highest Ranking Employee	David Currence	Nemak of Canada
	Email: david.currence@nemak.com	Same as facility address
	Phone: (519) 250-2681	
Planner Responsible for Making Recommendations and Certification	Brad Bergeron	RWDI AIR Inc.
	Planner Licence No.: TSRP0242	4510 Rhodes Drive, Unit 530 Windsor, Ontario N8W 5K5
	Email: brad.bergeron@rwdi.com	
	Phone: (519) 823-1311 x 2428	



PLAN SUMMARY

Particulate Matter (CAS NO. NA – M08)
Statement of Intent
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention in its ISO 14001 certified Environmental Management system, the Facility intends to reduce or minimize the use or creation of the listed substance wherever possible.
Objectives
Nemak Windsor Aluminum Plant does not intend to implement a reduction option for Particulate Matter. Windsor Aluminum will continue to investigate continuous improvement efforts through its ISO 14001 Certified Environmental Management System to reduce the creation of Particulate Matter going forward.
Description of Creation of Substance
Particulate matter is created as a result of natural gas combustion, diesel fuel combustion as well as through the handling of sand used to produce the molds in which molten aluminum is poured.
Description of Option(s) to be Implemented
In accordance with s. 4(1)6 of the Toxic Reduction Act, the Nemak Windsor Aluminum Plant facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The facility will continue to investigate process efficiencies and thrive for continual improvements through day to day operations and maintenance programs.

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. for the Nemak Windsor Aluminum Plant for Particulate Matter, dated December 10, 2015.



Heavy Aromatic Solvent Naphtha (CAS NO. 64742-94-5)

Statement of Intent

In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention in its ISO 14001 certified Environmental Management system, the Facility intends to reduce or minimize the use or creation of the listed substance wherever possible.

Objectives

Nemak Windsor Aluminum Plant does not intend to implement a reduction option for Heavy Aromatic Solvent Naphtha. Windsor Aluminum will continue to investigate continuous improvement efforts through its ISO 14001 Certified Environmental Management System to reduce the creation of Heavy Aromatic Solvent Naphtha going forward.

Description of Use of Substance

Sand cores are made using silica sand and a 2 part Isocure resin mixture containing heavy aromatic solvent naphtha which is cured using a dimethylisopropylamine (DMIPA) catalyst. Once cores are made, they are assembled together to form a core package which serves as the mold to make the aluminum part. Liquid aluminum is pumped in the bottom of a sand core package.

Description of Option(s) to be Implemented

In accordance with s. 4(1)6 of the Toxic Reduction Act, the Nemak Windsor Aluminum Plant facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The facility will continue to investigate process efficiencies and thrive for continual improvements through day to day operations and maintenance programs.

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. for the Nemak Windsor Aluminum Plant for Heavy Aromatic Solvent Naphtha, dated December 10, 2015.



Heavy Alkylate Naphtha (CAS NO. 64741-65-7)

Statement of Intent

In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention in its ISO 14001 certified Environmental Management system, the Facility intends to reduce or minimize the use or creation of the listed substance wherever possible.

Objectives

Nemak Windsor Aluminum Plant does not intend to implement a reduction option for Heavy Alkylate Naphtha. Windsor Aluminum will continue to investigate continuous improvement efforts through its ISO 14001 Certified Environmental Management System to reduce the creation of Heavy Alkylate Naphtha going forward.

Description of Use of Substance

The maintenance of process equipment includes cleaning of manufacturing equipment with a solvent containing Heavy Alkylate Naphtha.

Description of Option(s) to be Implemented

In accordance with s. 4(1)6 of the Toxic Reduction Act, the Nemak Windsor Aluminum Plant facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The facility will continue to investigate process efficiencies and thrive for continual improvements through day to day operations and maintenance programs.

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. for the Nemak Windsor Aluminum Plant for Heavy Alkylate Naphtha, dated December 10, 2015.



1.1 Certification by Highest Ranking Employee

As of December 17, 2015, I, David Currence, certify that I have read the toxic substance reduction plan for the toxic substances referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

<u>Substance</u>	<u>Date of Certified Plan</u>
▪ Particulate Matter (CAS No. NA – M08)	December 17, 2015
▪ Heavy Aromatic Solvent Naphtha (CAS No. 64742-94-5)	December 17, 2015
▪ Heavy Alkylate Naphtha (CAS No. 64741-65-7)	December 17, 2015

A handwritten signature in blue ink that reads 'D. Currence'.

David Currence
Plant Manager
Nemak of Canada Corporation



1.2 Certification by Licenced Planner

As of December 17, 2015, I, Brad Bergeron, certify that I am familiar with the processes at Windsor Aluminum Plant that use or create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the *Toxics Reduction Act, 2009* that are set out in the toxic substance reduction plan referred to below for the toxic substances and that the plan complies with the Act and Ontario Regulation 455/09 (General) made under that Act.

<u>Substance</u>	<u>Date of Certified Plan</u>
▪ Particulate Matter (CAS No. NA – M08)	December 17, 2015
▪ Heavy Aromatic Solvent Naphtha (CAS No. 64742-94-5)	December 17, 2015
▪ Heavy Alkylate Naphtha (CAS No. 64741-65-7)	December 17, 2015

A handwritten signature in blue ink that reads 'Brad Bergeron'.

Brad Bergeron, Planner Licence #TSRP0242
Senior Project Manager / Toxic Substance Reduction Planner
RWDI AIR Inc.