

REPORT ON THE TOXIC SUBSTANCE REDUCTION PLANS (JUNE 2016 for Reporting Year 2015)

This Report on the Toxic Substance Reduction Plans has been prepared in accordance with, and satisfies the requirements of Section 10 of the *Toxics Reduction Act* (TRA) and Section 27 of Ontario Regulation (O.Reg.) 455/09 for all TRA toxic substances for which Toxic Substance Reduction Plans have been prepared to date.

Basic Facility Information

Mandatory Basic Facility Information Item	Details
Substance Name and Chemical Abstracts Service (CAS) Registry Number for the Substances whose Toxic Substance Reduction Plans are covered by this Report on Toxic Substance Reduction Plans	Isopropyl Alcohol – 67-63-0 Ethanol – 64-17-5
National Pollutant Release Inventory (NPRI) and O.Reg.127/01 Identification Numbers	NPRI ID: 5898 O.Reg.127/01 ID: N/A
The legal and trade names of the owner and the operator of the facility, the street address of the facility and the mailing address of the facility, if different	Howmet Georgetown Casting, a division of Alcoa Ltd. 93 Mountainview Road North Georgetown, Ontario, Canada L7G 4J6
The number of full time employee equivalents at the facility	86
The two- and four-digit North American Industry Classification System (NAICS) codes and the six-digit NAICS Canada code	NAICS 2 Code: 33 - Manufacturing NAICS 4 Code: 3315 – Foundries NAICS 6 Code: 331529 – Non-Ferrous Foundries (except Die-Casting)
Public contact	Andreas Hack 93 Mountainview Road North Georgetown, Ontario L7G 4J6 (905) 877-6938 x2125
The spatial coordinates of the facility expressed in Universal Transverse Mercator (UTM) within a North American Datum 83 (NAD83) datum	Easting 587916.34 Northing 4834159.63 UTM Zone 17
Parent Company Information	Alcoa Power and Propulsion

List of All Substances for which Toxic Substance Reduction Plans Have Been Prepared at the Facility

The Facility has prepared Toxic Substance Reduction Plans for the following prescribed Toxic Substances:

- Isopropyl Alcohol (CAS No. 67-63-0); and
- Ethanol (CAS No. 64-17-5).

Toxic Substance Accounting Information

Refer to Appendix A: TRA Toxic Substance Quantification and Accounting Summary for the information required under s.12(1) of O.Reg.455/09.

Comparison of Toxic Substance Accounting to the Previous Calendar Year

Refer to Appendix B: Comparison of Toxic Substance Quantification and Accounting to the Previous Calendar Year for the information required by s.26(2) of O.Reg.455/09.

Changes in Quantification Methods

There were no changes made to any quantification methods since the preparation of the Toxic Substance accounting information for the previous calendar year and therefore no changes outlined in the above comparison occurred due to changes in quantification methods.

Objectives of Toxic Substance Reduction Plans

The Objectives of the Plans are as follows:

- provide support for the Facility's position with respect to the Statement of Intent by providing an explanation of how the TRA's definition of the word "use", as applied to the Toxic Substance, renders it impossible to reduce the "use" of the Toxic Substance without reducing Facility production;
- provide the reader with an understanding of the nature of the Facility activity which the TRA has defined as a "use" of the Toxic Substance; and
- document how the Facility has fulfilled the applicable requirements under the TRA and O.Reg.455/09 with respect to the Toxic Substance.

Toxic Substance Reduction Options Identified in Toxic Substance Reduction Plans

As required by s.18(4) of O. Reg. 455/09 (as amended by s.9(3) of O. Reg. 214/11), a Plan must contain an explanation of why no toxic substance reduction options will be implemented.

Facility personnel have considered each of the seven categories for toxic substance reduction options, and, in light of the information provided in the Statement of Intent section of this Plan, the Facility feels that no toxic substance reduction options can be identified in any of the seven toxic substance reduction categories. This result is due mainly to space limitations at the Facility and the fixed process manufacturing process that is place that would require re-appraisal and re-certification, for any potential material substitution options.

Therefore, the rationale for not implementing toxic substance reduction options is that no toxic substance reduction options could be identified. Facility personnel will continue to evaluate and assess future potential reduction options as they become available through the advancement of materials technology, manufacturing process and management.

Therefore, the information required by s.26(2)4, s.26(2)5 and s.26(2)6 is not applicable for this Report.

Amendments to Toxic Substance Reduction Plans

No Amendments have been made to the Toxic Substance Reduction Plans.

Certification Statement

As of June 06, 2016, I certify that I have read the Report on the toxic substance reduction plans for Isopropyl Alcohol (CAS# 67-63-0) and Ethanol (CAS# 64-17-5) and am familiar with its content 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 the Act.



*John Pellegrino
Canadian Operations Manager
Alcoa Power and Propulsion, Howmet Georgetown Casting
93 Mountainview Road North
Georgetown, Ontario
L5N 7K2*



Date

**APPENDIX A: TRA TOXIC SUBSTANCE QUANTIFICATION AND ACCOUNTING
SUMMARY**

TRA Toxic Substance Quantification and Accounting Summary

Toxic Substance	CAS No.	Public Reportable Values (Report to Public)			
		Unit	Use	Creation	Contained in Product
Isopropyl Alcohol	67-63-0	tonnes	>10 to 100	>0 to 1	>0 to 1
Ethanol	64-17-5	tonnes	>1 to 10	>0 to 1	>0 to 1

**APPENDIX B: COMPARISON OF TOXIC SUBSTANCE QUANTIFICATION AND
ACCOUNTING TO THE PREVIOUS CALENDAR YEAR**

TRA Quantification, Accounting and Reporting Comparison

USE

Toxic Substance	CAS	Reporting Units	Change in Reported Value	% Change	Comment if Change +/- 10%
Isopropyl Alcohol	67-63-0	tonnes	3.593	19%	Increase in usage rates of raw materials containing IPA
Ethanol	64-17-5	tonnes	1.633	27%	Increase in usage rates of raw materials containing ethanol

CREATION

Toxic Substance	CAS*	Reporting Units	Change in Reported Value	% Change	Comment if Change +/- 10%
Isopropyl Alcohol	67-63-0	tonnes	0.000	—	—
Ethanol	64-17-5	tonnes	0.000	—	—

CONTAINED IN PRODUCT

Toxic Substance	CAS*	Reporting Units	Change in Reported Value	% Change	Comment if Change +/- 10%
Isopropyl Alcohol	67-63-0	tonnes	0.000	—	—
Ethanol	64-17-5	tonnes	0.000	—	—