



FIO Automotive Canada Corporation
220 Dunn Road, PO Box 1105
Stratford, ON N5A 8B2

2017 Toxics Reduction Act

Toxic Substance Reduction Plan Summary

FIO Automotive Canada Corporation
220 Dunn Road, PO Box 1105
Stratford, ON N5A 8B2

13th December 2018

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Statement of Intent and Objective of the Plan

FIO is committed to playing a leadership role in protecting the environment. Wherever feasible, we will eliminate or reduce the use, creation and discharge of toxic substances in full compliance with all federal and provincial regulations. Our employees are encouraged to participate in toxic substance reduction activities. Toxic substance reduction will be an ongoing effort, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

Futaba Industrial Ontario (FIO) Automotive Canada does not intend to reduce the amount, used or created, of the various Toxics identified within this Reduction Plan.

The toxic substance plan summaries in this document are accurate and were certified Dave Martin (Highest Ranking FIO Employee) and Justin Lewis (Certified Toxic Substance Reduction Planner).

Toxic Substances for Which the Facility Must Prepare a Plan

- Aluminum (fume or dust only) CAS #7429-90-5
- Chromium (and its compounds) NA-04 & Hexavalent Chromium (CAS 18540-29-9)
- Copper (and its compounds) NA-06
- Manganese (and its compounds) NA-09
- Nickel (and its compounds) NA-11
- Vanadium (and its compounds) CAS #7440-62-2
- PM10 & PM2.5

This plan summary accurately reflects the plan.

Facility Information

Facility NPRI NO.	10648
Facility O. Reg 127/01 No.	9715
Company legal and Trade Names	FIO Automotive Canada Corporation
Facility street address	220 Dunn Road Stratford, Ontario N5A 6V7
Facility mailing address	220 Dunn Road PO Box 1105 Stratford, Ontario N5A 8B2
No. of full-time employee equivalent	356
NAICS Code	336390
UTM spatial coordinates with NAD83 datum	UTM Zone 17 UTM Easting: 499035 UTM Northing: 4799081
Legal name of Canadian parent company	Same as above
Street and mailing address of parent company	Same as above
Percentage ownership of facility	100
Name, position and contact information of facility public contact	Jonathan Parish Assistant Manager, Press & Facilities Engineering, Environmental 519.275.6070 x6069 jparish@fioautomotive.com

Substance Information

Aluminum (fume or dust only) CAS #7429-90-5

Statement of Intent and Reduction Objectives

FIO does not intend to reduce the amount used or created of this substance.

Why Used or Created

Aluminum is contained in a variety of steels that FIO stamps, welds and assembles. FIO does not create Aluminum.

The fume or dust from this substance is created at FIO during the welding process where the base steel (containing Aluminum) becomes molten and a small amount is converted into fume/dust.

Accounting Results

Aluminum

Form of Involvement	Shipped (kg)	Recycled (kg)	Disposed (kg)	Released (kg)
Amt of substance (kg)	20,265.78	3753.61	0	0

Chromium (fume or dust only) NA-04 and Hexavalent Chromium (CAS 18540-29-9)

Statement of Intent and Reduction Objectives

FIO does not intend to reduce the amount used or created of this substance.

Why Used or Created

Chromium is contained in a variety of steels that FIO stamps, welds and assembles. FIO does not create Chromium.

Hexavalent Chromium is created at FIO when welding stainless steel material.

The fume or dust from this substance is created at FIO during the welding process where the base steel (containing Chromium) becomes molten and a small amount is converted into fume/dust.

Accounting Results

Form of Involvement	Shipped (kg)	Recycled (kg)	Disposed (kg)	Released (kg)
Amt of substance (kg)	-	0.00	0.00	5.41

Copper (fume or dust only) NA-04

Statement of Intent and Reduction Objectives

FIO does not intend to reduce the amount used or created of this substance.

Why Used or Created

Copper is contained in a variety of steels that FIO stamps, welds and assembles. Copper is also contained in the electrodes used for mig, spot and other resistance welding processes. FIO does not create Copper.

The fume or dust from this substance is created at FIO during the welding process where the base steel (containing Copper) becomes molten and a small amount is converted into fume/dust.

Accounting Results

Copper

Form of Involvement	Shipped (kg)	Recycled (kg)	Disposed (kg)	Released (kg)
Amt of substance (kg)	13,118.00	3562.21	0.14	0.123494

Manganese (fume or dust only) NA-09

Statement of Intent and Reduction Objectives

FIO does not intend to reduce the amount used or created of this substance.

FIO will continue protecting the environment by minimizing the impact of our operations, fulfilling our compliance obligations at local, provincial and federal levels and to continually improve the company's environmental management system.

Why Used or Created

Manganese is contained in a variety of steels that FIO stamps, welds and assembles. FIO does not create Manganese.

The fume or dust from this substance is created at FIO during the welding process where the base steel (containing Manganese) becomes molten and a small amount is converted into fume/dust.

Accounting Results

Manganese

Form of Involvement	Shipped (kg)	Recycled (kg)	Disposed (kg)	Released (kg)
Amt of substance (kg)	274,496.66	47841.65	0	169.7201

Nickel (fume or dust only) NA-11

Statement of Intent and Reduction Objectives

FIO does not intend to reduce the amount used or created of this substance.

FIO will continue protecting the environment by minimizing the impact of our operations, fulfilling our compliance obligations at local, provincial and federal levels and to continually improve the company's environmental management system.

Why Used or Created

Nickel is contained in a variety of steels that FIO stamps, welds and assembles. FIO does not create Nickel.

The fume or dust from this substance is created at FIO during the welding process where the base steel (containing Nickel) becomes molten and a small amount is converted into fume/dust.

Accounting Results

Nickel

Form of Involvement	Shipped (kg)	Recycled (kg)	Disposed (kg)	Released (kg)
Amt of substance (kg)	6,022.89	4740.84	0.00	2.425199

Vanadium (fume or dust only) CAS #7440-62.2

Statement of Intent and Reduction Objectives

FIO does not intend to reduce the amount used or created of this substance.

FIO will continue protecting the environment by minimizing the impact of our operations, fulfilling our compliance obligations at local, provincial and federal levels and to continually improve the company's environmental management system.

Why Used or Created

Vanadium is contained in a variety of steels that FIO stamps, welds and assembles. FIO does not create Vanadium.

The fume or dust from this substance is created at FIO during the welding process where the base steel (containing Vanadium) becomes molten and a small amount is converted into fume/dust.

Accounting Results

Vanadium

Form of Involvement	Shipped (kg)	Recycled (kg)	Disposed (kg)	Released (kg)
Amt of substance (kg)	2,044.47	683.26	0.00	0

PM10 and PM2.5

Statement of Intent and Reduction Objectives

FIO does not intend to reduce the amount particulate used or created. Airborne particulate is a by-product of the product produced which is in particulate form and so reducing particulate would contradict the business plan.

Why Used or Created

The PM10 and PM2.5 particulate is created at FIO during the welding process where the base steel becomes molten and a small amount is converted into fume/dust.

Particle size distribution was not included in this work. It was assumed that PM10 and PM2.5 were the same.

Accounting Results

PM2.5, PM10

Form of Involvement	Shipped (kg)	Recycled (kg)	Disposed (kg)	Released (kg)
Amt of substance (kg)	-	0.00	0	2,992.26

Certification

Certification by Person Completing the Report

As of (date), I, Jonathan Parish, confirm that I have read the toxic substance reduction plan for the toxic substance(s) referred to below and am familiar with its contents and to my knowledge the plan is factually accurate and complies with all requirements of the Toxic Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under this act.

Toxic Substances: Aluminum, Chromium, Copper, Manganese, Nickel, Vanadium


Jonathan Parish, Press & Facilities Engineering, Environmental

12/12/2018.
Date

Certification by Highest Ranking Employee

As of (date), I, Dave Martin, confirm that I have read the toxic substance reduction plan for the toxic substance(s) referred to below and am familiar with its contents and to my knowledge the plan is factually accurate and complies with all requirements of the Toxic Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under this act.

Toxic Substances: Aluminum, Chromium, Copper, Manganese, Nickel, Vanadium



Dave Martin, President

14 DEC 2018
Date

Certification by Licensed Planner

As of (date), I, Justin Lewis, confirm that I am familiar with the processes at the FID Automotive Canada Corporation, Stratford, Ontario facility that uses or creates the toxic substance(s) referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of section 4(1) of the Toxics Reduction Act, 2009 that are set out in the plan dated and the plan meets all requirements of that Act and Ontario Regulation 455/09 (General) made under the Act.

Toxic Substances: Aluminum, Chromium, Copper, Manganese, Nickel, Vanadium


Justin Lewis, B.Sc., C.E.T., F.P., C. Chem. Environmental Scientist, Toxics Reduction Planner License No. TSRP0193

17th December 2018
Date