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# Toxics Reduction Plan - Summary

**Hexavalent Chromium  
(and its compounds)  
CAS # - NA-19**

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**Prepared for:**  
Ardaven Platers Ltd.  
11 Carson St.  
Toronto, Ontario  
M8W 3R7

**Prepared by:**  
Airzone One Ltd.  
222 Matheson Blvd E  
Mississauga, ON  
L4Z 1X1

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## 1.0 Introduction

### 1.1 *General Information*

The facility is located at 11 Carson St., Toronto, Ontario. This plan is for hexavalent chromium and its compounds (CAS# - NA-19). The facility has also prepared a plan for cadmium (CAS# - NA-03).

Hexavalent Chromium is contained within the yellow dichromate, black unichrome and chromic acid. The Yellow dichromate is applied via dip tank (on 2 barrel lines called M Barrel line and A Barrel line, as well as on the Rack-Zinc line) to parts that have already been plated with zinc; it is used for its colour and corrosion prevention properties. Black unichrome is applied via dip tank (on the 2 barrel lines, M Barrel line and A Barrel line) for plating treatments requiring this colour and corrosion prevention. Chromic Acid is used in the electroplating line (Rack-Nickel Chrome line) and it is useful for its decorative appearance and corrosion resistance properties.

**Table 1-1 - General Facility Information**

<b>NPRI Number</b>	7056
<b>O Reg 127/01 Number</b>	N/A
<b>Number of full time employee equivalents</b>	14
<b>NAICS Code (2 digit)</b>	31-33 - Manufacturing
<b>NAICS Code (4 digit)</b>	3328 - Coating, Engraving & Heat Treating Activities
<b>NAICS Code (6 digit)</b>	332810 - Coating, Engraving & Heat Treating Activities
<b>UTM Coordinates</b>	17 T 618394.64 m E 4828488.62 m N
<b>Company Legal Name</b>	Ardaven Platers Limited
<b>Company Trade Name</b>	Ardaven Platers Limited

**1.2. Plan Contacts**

<p><b>Public Contact</b></p> <p>Stephen Spray General Manager Tel: (416) 252-2222 Fax: (416) 252-0623 Email: <a href="mailto:ardaven@bellnet.ca">ardaven@bellnet.ca</a></p>
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## 2.0 Facility's Intent, Objectives and Targets

### 2.1. *Use*

The act requires that a facility include a statement of intent to reduce the use of the prescribed toxic substance. If the facility does not provide a statement of intent it must provide a reason why it does not intend or why it is not possible to reduce the use of the toxic substance. In addition to this, the facility is required to provide a list of objectives.

#### **Statement of intent:**

The facility does not have a statement of intent.

#### **Reason why the facility does not have a statement of intent:** (if applicable)

Ardaven Platers Ltd. does not intend to reduce hexavalent chromium because (i) there are no further reduction options possible (see s.6), and, (ii) they are in the business of chrome plating and there is not a suitable substitute that could provide a product that is within the customers' demands.

#### **Objectives:** (a list of objectives to reduce if any)

Although Ardaven Platers Ltd. does not intend to reduce the use of hexavalent chromium, they will continue to conduct further research to identify new reduction options and to keep up with industry standards with regards to hexavalent chromium pollution prevention.

**Quantity Target:** (if any)                      No target

**Target Timeline:** (if any can be expressed in years or described in text box, or no timeline can be selected)                      No timeline

#### **Reason why toxic substance is used at the facility:** (from drop down menu options)

For on-site use/ processing.

**2.2. Creation**

The act requires that a facility include a statement of intent to reduce the creation of the prescribed toxic substance. If the facility does not provide a statement of intent it must provide a reason why it does not intend or why it is not possible to reduce the creation of the toxic substance.

**Statement of intent:**

The facility does not have a statement of intent.

**Reason why the facility does not have a statement of intent:**

The facility does not create the subject substances at the facility; therefore it is not required to provide a statement of intent on the creation of this substance.

**Objectives:** N/A

**Quantity Target:** N/A

**Target Timeline:** N/A

**Reason why toxic substance is used at the facility:** N/A.

### **3.0 Facility's Goals**

There are no reasonable substitutions for these substances and many of the reduction options possible have already been implemented in the past.

### **4.0 Facility TRA Plan (info)**

This plan summary is accurate, up to date and reflects the current facility version of the Toxic Reduction Plan.

### **5.0 Signed Certification Statements**

**Certification by highest ranking employee**

As of December 4, 2012 [date], I, Stephen Spray, certify that I have read the toxic substance reduction plan for the toxic substance 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.

**Hexavalent Chromium**

Signed:



**Stephen Spray**  
**Ardaven Platers Ltd.**

**Certification by toxic substance reduction planner**

As of December 5<sup>th</sup>, 2012 [date], I, Franco DiGiovanni, certify that I am familiar with the processes at Ardaven Platers Ltd. that use or create the toxic substance 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 plan dated December 4<sup>th</sup>, 2012 [version date] and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

**Hexavalent Chromium**

Signed:



Franco DiGiovanni

**Airzone One Ltd.**

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# Toxics Reduction Plan

**Cadmium (and its compounds)  
CAS # - NA-03**

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**Prepared for:**  
Ardaven Platers Ltd.  
11 Carson St.  
Toronto, Ontario  
M8W 3R7

**Prepared by:**  
Airzone One Ltd.  
222 Matheson Blvd E  
Mississauga, ON  
L4Z 1X1

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## 1.0 Introduction

### *1.1 General Information*

The facility is located at 11 Carson St., Toronto, Ontario. This plan is for cadmium and its compounds (CAS# - NA-03). The facility has also prepared a plan for hexavalent chromium (CAS# - NA-19).

Cadmium is used in an electroplating tank, which is part of the Rack-Zinc line. Cadmium has excellent lubricity and superior corrosion resistance. Cadmium also has galvanic characteristics that are compatible with aluminum. There is no one plating agent that could replace cadmium.

**Table 1-1 - General Facility Information**

<b>NPRI Number</b>	7056
<b>O Reg 127/01 Number</b>	N/A
<b>Number of full time employee equivalents</b>	14
<b>NAICS Code (2 digit)</b>	31-33 - Manufacturing
<b>NAICS Code (4 digit)</b>	3328 - Coating, Engraving & Heat Treating Activities
<b>NAICS Code (6 digit)</b>	332810 - Coating, Engraving & Heat Treating Activities
<b>UTM Coordinates</b>	17 T 618394.64 m E 4828488.62 m N
<b>Company Legal Name</b>	Ardaven Platers Limited
<b>Company Trade Name</b>	Ardaven Platers Limited

*1.2 Plan Contacts*

<p><b>Public Contact</b></p> <p>Stephen Spray          General Manager          Tel: (416) 252-2222          Fax: (416) 252-0623          Email: <a href="mailto:ardaven@bellnet.ca">ardaven@bellnet.ca</a></p>
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## **2.0 Facility's Intent, Objectives and Targets**

### *2.1 Use*

The act requires that a facility include a statement of intent to reduce the use of the prescribed toxic substance. If the facility does not provide a statement of intent it must provide a reason why it does not intend or why it is not possible to reduce the use of the toxic substance. In addition to this, the facility is required to provide a list of objectives.

#### **Statement of intent:**

The facility does not have a statement of intent.

#### **Reason why the facility does not have a statement of intent:** (if applicable)

Ardaven Platers Ltd. does not intend to reduce cadmium because (i) there are no further reduction options possible (see s.6), and, (ii) they are in the business of cadmium plating and there is not a suitable substitute that could provide a product that is within the customers' demands.

#### **Objectives:** (a list of objectives to reduce if any)

Although Ardaven Platers Ltd. does not intend to reduce the use of cadmium, they will continue to conduct further research to identify new reduction options and to keep up with industry standards with regards to cadmium pollution prevention.

#### **Quantity Target:** (if any) No target

#### **Target Timeline:** (if any can be expressed in years or described in text box, or no timeline can be selected)

No timeline

#### **Reason why toxic substance is used at the facility:** (from drop down menu options)

For on-site use/ processing.

## 2.2 *Creation*

The act requires that a facility include a statement of intent to reduce the creation of the prescribed toxic substance. If the facility does not provide a statement of intent it must provide a reason why it does not intend or why it is not possible to reduce the creation of the toxic substance.

### **Statement of intent:**

The facility does not have a statement of intent.

### **Reason why the facility does not have a statement of intent:**

The facility does not create the subject substances at the facility; therefore it is not required to provide a statement of intent on the creation of this substance.

**Objectives:** N/A

**Quantity Target:** N/A

**Target Timeline:** N/A

**Reason why toxic substance is used at the facility:** N/A.

### **3.0 Facility's Goals**

There are no reasonable substitutions for these substances and many of the reduction options possible have already been implemented in the past.

### **4.0 Facility TRA Plan (info)**

This plan summary is accurate, up to date and reflects the current facility version of the Toxic Reduction Plan.

### **5.0 Signed Certification Statements**

**Certification by highest ranking employee**

As of December 4, 2012 [date], I, Stephen Spray, certify that I have read the toxic substance reduction plan for the toxic substance 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.

**Cadmium**

Signed:



Stephen Spray  
Ardaven Platers Ltd.

**Certification by toxic substance reduction planner**

As of December 5<sup>th</sup>, 2012 [date], I, Franco DiGiovanni, certify that I am familiar with the processes at Ardaven Platers Ltd. that use or create the toxic substance 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 plan dated December 4<sup>th</sup>, 2012 [version date] and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

**Cadmium**

Signed:



Franco DiGiovanni  
**Airzone One Ltd.**