



**TOXICS REDUCTION ACT  
TOXIC SUBSTANCE REDUCTION PLAN SUMMARIES  
2011**

REPORT PREPARED BY:  
*O2E Inc.*

REPORT PREPARED FOR:  
*KENNAMETAL STELLITE*

O2E REF. NO. 15-008

JANUARY 27, 2017

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## 1. PLAN SUMMARY – CHROMIUM AND ITS COMPOUNDS

<b>Name and CASRN of Substance</b>	Chromium and its Compounds	NA - 04
<b>Substances for which other plans have been prepared</b>	Cobalt and its Compounds	NA - 05
	Nickel and its Compounds	NA - 11

### 1.1 Basic Facility Information

Basic facility information has been included in Section 4 of this document.

### 1.2 Toxic Reduction Policy Statement of Intent

Environment, Health, and Safety (EHS) is fundamental to our business and our ability to Deliver The Promise to all stakeholders, including our employees, customers, shareholders, and the public. Every day, our employees are empowered to demonstrate our EHS commitment by providing sustainable solutions by reducing the total environmental impact of our products and operations. We will protect our planet by continuously improving our management of energy and natural resources, promoting recycling and recovery of materials, and preventing pollution across our global footprint. From global standards to local actions, our performance must be consistent, meet and aim to exceed all legal requirements, and be aligned with stakeholder expectations in the pursuit of an ever more sustainable enterprise.

Wherever feasible, Kennametal Stellite will reduce the use and release of Chromium in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Kennametal Stellite, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

### 1.3 Reduction Objectives

The reduction of toxic substance use, creation and releases is a priority for Kennametal Stellite forming part of our sustainability programs and EMS. Kennametal Stellite is unable to reduce the use of Chromium (and its compounds) as it is an integral component of some of the alloys produced by the facility. However, we will ensure the sound management and use of this substance that minimizes significant adverse impacts on human health and the environment.

### 1.4 Toxic Substance Reduction Option to be Implemented

There are currently no reduction options that have been identified as being both technically and economically feasible for this substance. However, Kennametal Stellite will continue to

explore and investigate potential reduction options as they arise as part of our existing sustainability programs.

### 1.5 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for Chromium, dated November 9, 2016.

### 1.6 Copy of Plan Confirmation

A copy of the plan confirmation is presented in Section 5 of this document.

## 2. PLAN SUMMARY – COBALT AND ITS COMPOUNDS

<b>Name and CASRN of Substance</b>	Cobalt and its Compounds	NA - 05
<b>Substances for which other plans have been prepared</b>	Chromium and its Compounds	NA - 04
	Nickel and its Compounds	NA - 11

### 2.1 Basic Facility Information

Basic facility information has been included in Section 4 of this document.

### 2.2 Toxic Reduction Policy Statement of Intent

Environment, Health, and Safety (EHS) is fundamental to our business and our ability to Deliver The Promise to all stakeholders, including our employees, customers, shareholders, and the public. Every day, our employees are empowered to demonstrate our EHS commitment by providing sustainable solutions by reducing the total environmental impact of our products and operations. We will protect our planet by continuously improving our management of energy and natural resources, promoting recycling and recovery of materials, and preventing pollution across our global footprint. From global standards to local actions, our performance must be consistent, meet and aim to exceed all legal requirements, and be aligned with stakeholder expectations in the pursuit of an ever more sustainable enterprise.

Wherever feasible, Kennametal Stellite will reduce the use and release of Cobalt in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Kennametal Stellite, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

### 2.3 Reduction Objectives

The reduction of toxic substance use, creation and releases is a priority for Kennametal Stellite forming part of our sustainability programs and EMS. Kennametal Stellite is unable to reduce the use of Cobalt (and its compounds) as it is an integral component of some of the alloys produced by the facility. However, we will ensure the sound management and use of this substance that minimizes significant adverse impacts on human health and the environment.

### 2.4 Toxic Substance Reduction Option to be Implemented

There are currently no reduction options that have been identified as being both technically and economically feasible for this substance. However, Kennametal Stellite will continue to explore and investigate potential reduction options as they arise as part of our existing sustainability programs.

### 2.5 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for Cobalt, dated November 9, 2016.

### 2.6 Copy of Plan Confirmation

A copy of the plan confirmation is presented in Section 5 of this document.

## 3. PLAN SUMMARY – NICKEL AND ITS COMPOUNDS

<b>Name and CASRN of Substance</b>	Nickel and its Compounds	NA - 11
<b>Substances for which other plans have been prepared</b>	Cobalt and its Compounds	NA - 05
	Chromium and its Compounds	NA - 04

### 3.1 Basic Facility Information

Basic facility information has been included in Section 4 of this document.

### 3.2 Toxic Reduction Policy Statement of Intent

Environment, Health, and Safety (EHS) is fundamental to our business and our ability to Deliver The Promise to all stakeholders, including our employees, customers, shareholders, and the public. Every day, our employees are empowered to demonstrate our EHS commitment by providing sustainable solutions by reducing the total environmental impact of our products and operations. We will protect our planet by continuously improving our management of energy

and natural resources, promoting recycling and recovery of materials, and preventing pollution across our global footprint. From global standards to local actions, our performance must be consistent, meet and aim to exceed all legal requirements, and be aligned with stakeholder expectations in the pursuit of an ever more sustainable enterprise.

Wherever feasible, Kennametal Stellite will reduce the use and release of Nickel in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Kennametal Stellite, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

### **3.3 Reduction Objectives**

The reduction of toxic substance use, creation and releases is a priority for Kennametal Stellite forming part of our sustainability programs and EMS. Kennametal Stellite is unable to reduce the use of Nickel (and its compounds) as it is an integral component of some of the alloys produced by the facility. However, we will ensure the sound management and use of this substance that minimizes significant adverse impacts on human health and the environment.

### **3.4 Toxic Substance Reduction Option to be Implemented**

There are currently no reduction options that have been identified as being both technically and economically feasible for this substance. However, Kennametal Stellite will continue to explore and investigate potential reduction options as they arise as part of our existing sustainability programs.

### **3.5 Plan Summary Statement**

This plan accurately reflects the content of the toxic substance reduction plan for Nickel, dated November 9, 2016.

### **3.6 Copy of Plan Confirmation**

A copy of the plan confirmation is presented in Section 5 of this document.



**4. BASIC FACILITY INFORMATION**

<b>Facility Identification and Site Address</b>		
<b>Company Name</b>	Kennametal Inc.	
<b>Facility Name</b>	Kennametal Stellite - Belleville Facility	
<b>Facility Address</b>	Physical Address:	Mailing Address:
	471 Dundas Street East Belleville, ON K8N 1G2	471 Dundas Street East Belleville, ON K8N 1G2
<b>Spatial Coordinates (UTM)</b>	311935.97 (Easting)	4893040.39 (Northing)
<b>Datum</b>	WGS84 - Zone 18T	
<b>Number of Employees</b>	226 (Full time equivalents)	
<b>NPRI ID</b>	7154	
<b>ON MOE ID</b>	-	
<b>Parent Company Information</b>		
<b>Parent Company Name &amp; Address</b>	Kennametal Inc. 1600 Technology Way Latrobe, PA 15650 USA	
<b>Percent Ownership</b>	100%	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
<b>2 Digit NAICS Code</b>	33 - Manufacturing	
<b>4 Digit NAICS Code</b>	3315 - Foundries	
<b>6 Digit NAICS Code</b>	331529 – Other Nonferrous Metal Foundries (except Die-Casting)	
<b>Company Contact Information</b>		
<b>Facility Public Contact</b>	Julie Parkes	Contact Address: 471 Dundas Street East Belleville, ON K8N 1G2
	Julie.Parkes@kennametal.com	
	Phone: (613) 968-3481 x6640	
	Fax: (613) 966-8269	



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**Confirmation by the Highest Ranking Employee**

As of December 14, 2016, I, Don Williams, confirm that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and, with the exception of the regulatory deadline, comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substances:

Chromium  
Cobalt  
Nickel

A handwritten signature in blue ink, appearing to read 'Don Williams', written over a horizontal line.

Don Williams  
Plant Manager  
Kennametal Stellite Inc.

**Confirmation by Licensed Planner**

As of December 14, 2016, I, Tim Logan confirm that I am familiar with the processes at Kennametal Stellite's facility in Bellville 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 plans dated November 9, 2016 and that the plans, with the exception of the regulatory deadline, comply with that Act and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substances:

Chromium  
Cobalt  
Nickel

A handwritten signature in black ink, appearing to read 'Tim Logan', written over a horizontal line.

Tim Logan (License No. TSRP0003)  
President  
O2E Inc. Environmental Consultants