

# Toxic Substance Reduction Plan Hexavalent Chromium Compounds

## Summary

**BLOUNT**

**A. Basic Facility Information**

Name and CAS# of Substance	Hexavalent Chromium Compounds	N/A
Substances for which other plans have been prepared	Hydrochloric Acid	CAS 7647-01-0
	Lead	
	Methanol	CAS 67-56-1
<b>Facility Identification and Site Address</b>		
Company Name	Blount Canada Ltd.,	
Facility name		
Facility Address	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4	
Spatial Coordinates of Facility	Latitude: 43.3300 Longitude: 80.1600	
Number of Employees	750	
NPRI ID	3845	
Ontario MOE ID Number	N/A	
<b>Parent Company Information</b>		
Name and Address	Blount International	4909 S.E. International Way, Portland Oregon USA
Percent Ownership	100%	
Business Number	58638040	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
2 Digit NAICS Code	33	

## Toxic Substance Reduction Plan for 2011

4 Digit NAICS Code	3328	
6 Digit NAICS Code	332810	
<b>Company Contact Information</b>		
Facility Public Contact	Edward Lebrun, General Manager	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4
	ted.lebrun@blount.ca	
	Phone: 519-822-6870	
	Fax: 519-822-1450	
<b>Parent Company Contact Information</b>		
Parent Company Contact	N/A	

### ***Plan Summary Statement***

This plan summary accurately reflects the content of the toxic substance reduction plan for hexavalent chromium compounds, prepared by Blount Canada Ltd., dated December 12, 2012.

### ***STATEMENT OF INTENT***

Blount Canada Ltd. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use and discharge of hexavalent chromium compounds in full compliance with all Federal and Provincial Regulations. This facility does not create hexavalent chromium compounds, therefore this plan will not address reducing its creation.

### ***REDUCTION OBJECTIVES***

Blount intends to monitor new methods and investigate ways to reduce or eliminate the use of hexavalent chromium. Our objective is to reduce use of chrome by 5% within the next 6 years of preparing this Plan.

**DESCRIPTION OF SUBSTANCE**

Hexavalent Chromium Compounds – used in manufacturing process of chain cutters

**TOXIC SUBSTANCE REDUCTION OPTION TO BE IMPLEMENTED**

The following options have been identified for implementation to reduce the use and releases of hexavalent chromium compounds:

- Improve operation and controls on chrome purification system to maintain quality of the plating bath and eliminate the need for “half-dumps”.
- Ensure that empty totes are fully drained before returning them to the liquid chrome supplier.
- Revise the Standard Operating Procedures for the Hard Chrome Plating process in order to reduce Cr (VI) air emissions. Monitor tanks to detect and eliminate drips.

**Anticipated Reductions from the implementation of the above listed options are as follows:**

Company Name: Blount Canada Ltd.

Substance: hexavalent chromium compounds

CAS#: NA

Reduction Option: **Equipment or process modification - improvements in operation and controls on chrome purification system**

	Used (kg/yr)	Created (kg/yr)	On-site Releases (kg/yr)			Disposal (kg/yr)		Transfer (kg/yr)	Contained in Product (kg/yr)
			Air	Water	Land	On-site	Off-site		
Baseline	11,220	0.0	2	0.0	0.0	0.0	9,459	0.0	0.0
New estimated amount	9,204	0.0	2	0.0	0.0	0.0	7,443	0.0	0.0
Reduction	2,016	0.0	0.0	0.0	0.0	0.0	2,016	0.0	0.0
%Reduction	18%	0%	0%	0%	0%	0%	21%	0%	0%

## Toxic Substance Reduction Plan for 2011

Company Name: Blount Canada Ltd.

Substance: hexavalent chromium compounds

CAS#: NA

Reduction Option: **Improved inventory or purchasing - Ensure that empty totes are fully drained before returning them to the liquid chrome supplier.**

	Used (kg/yr)	Created (kg/yr)	On-site Releases (kg/yr)			Disposal (kg/yr)		Transfer (kg/yr)	Contained in Product (kg/yr)
			Air	Water	Land	On-site	Off-site		
Baseline	11,220	0.0	2	0.0	0.0	0.0	9,459	0.0	0.0
New estimated amount	8,820	0.0	2	0.0	0.0	0.0	7,059	0.0	0.0
Reduction	2,400	0.0	0.0	0.0	0.0	0.0	2,400	0.0	0.0
%Reduction	25%	0%	0%	0%	0%	0%	35%	0%	0%

Company Name: Blount Canada Ltd.

Substance: hexavalent chromium compounds

CAS#: NA

Reduction Option: **Training or improved operating practices - Revise the Standard Operating Procedures for the Hard Chrome Plating process in order to reduce Cr (VI) air emissions. Monitor tanks to detect and eliminate drips.**

	Used (kg/yr)	Created (kg/yr)	On-site Releases (kg/yr)			Disposal (kg/yr)		Transfer (kg/yr)	Contained in Product (kg/yr)
			Air	Water	Land	On-site	Off-site		
Baseline	11,220	0.0	2	0.0	0.0	0.0	9,459	0.0	0.0
New estimated amount	11,108	0.0	2	0.0	0.0	0.0	9,459	0.0	0.0

Toxic Substance Reduction Plan for 2011

Reduction	112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%Reduction	1%	0%	0%	0%	0%	0%	0%	0%	0%

It is expected that these reductions will be achieved within one to two years.

# Toxic Substance Reduction Plan Hydrochloric Acid

## Summary

**BLOUNT**

**B. Basic Facility Information**

Name and CAS# of Substance	Hydrochloric Acid	CAS 7647-01-0
Substances for which other plans have been prepared	Hexavalent Chromium Compounds	N/A
	Lead	N/A
	Methanol	CAS 67-56-1
<b>Facility Identification and Site Address</b>		
Company Name	Blount Canada Ltd.,	
Facility name		
Facility Address	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4	
Spatial Coordinates of Facility	Latitude: 43.3300 Longitude: 80.1600	
Number of Employees	750	
NPRI ID	3845	
Ontario MOE ID Number	N/A	
<b>Parent Company Information</b>		
Name and Address	Blount International	4909 S.E. International Way, Portland Oregon USA
Percent Ownership	100%	
Business Number	58638040	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
2 Digit NAICS Code	33	
4 Digit NAICS Code	3328	



## Toxic Substance Reduction Plan for 2011

6 Digit NAICS Code	332810	
<b>Company Contact Information</b>		
Facility Public Contact	Edward Lebrun, General Manager	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4
	ted.lebrun@blount.ca	
	Phone: 519-822-6870	
	Fax: 519-822-1450	
<b>Parent Company Contact Information</b>		
Parent Company Contact	N/A	

### ***Plan Summary Statement***

This plan summary accurately reflects the content of the toxic substance reduction plan for hydrochloric acid, prepared by Blount Canada Ltd., dated December 12, 2012.

### ***STATEMENT OF INTENT***

Blount Canada Ltd. is committed to playing a leadership role in protecting the environment. Hydrochloric acid is currently used by Blount as a manufacturing aid in regeneration of ion exchangers in process of de-ionized water treatment, pH adjustment and cleaning. We intend to reduce or eliminate the use of this toxic substance at the facility. This facility does not create hydrochloric acid, therefore this plan will not address reducing its creation. Whenever feasible, we intend to reduce or eliminate the use of this toxic substance at the facility in full compliance with all Federal and Provincial Regulations.

### ***REDUCTION OBJECTIVES***

In 2011 Blount completely eliminated use of hydrochloric acid in manufacturing process and significantly reduced use in ancillary processes. Blount will strive to reduce the use of hydrochloric acid at the facility. Blount intends to reduce the use of hydrochloric acid by 10% over the next 5 years of preparing this Plan.

**DESCRIPTION OF SUBSTANCE**

Hydrochloric acid is currently used by Blount as a manufacturing aid in regeneration of ion exchangers in process of de-ionized water treatment, pH adjustment and cleaning. This facility does not create hydrochloric acid; therefore this plan will not address reducing its creation.

**TOXIC SUBSTANCE REDUCTION OPTION TO BE IMPLEMENTED**

The following option has been identified for implementation to reduce the use and releases of hydrochloric acid:

- Review and Revise the Standard Operating Procedures for staff operating DI water treatment system in Waste Treatment Facility.

**Anticipated Reductions from the implementation of the above listed options are as follows:**

Company Name: Blount Canada Ltd.

Substance: hydrochloric acid

CAS#: 67-56-1

Reduction Option: **Training or improved operating practices – Review and Revise the Standard Operating Procedures for staff operating DI water treatment system in Waste Treatment Facility.**

	Used (t/yr)	Created (t/yr)	On-site Releases (t/yr)			Disposal (t/yr)		Transfer (t/yr)	Contained in Product (t/yr)
			Air	Water	Land	On-site	Off-site		
Baseline	25.856	0.0	0.363	0.0	0.0	0.0	1.395	0.0	0.0
New estimated amount	25.830	0.0	0.00	0.0	0.0	0.0	1.395	0.0	0.0
Reduction	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%Reduction	0.1%	0%	0%	0%	0%	0%	0%	0%	0%

It is expected that these reductions will be achieved within five years.

# Toxic Substance Reduction Plan Lead

## Summary

**BLOUNT**

**C. Basic Facility Information**

Name and CAS# of Substance	Lead	N/A
Substances for which other plans have been prepared	Hydrochloric Acid Methanol Hexavalent Chromium Compounds	CAS 7647-01-0 CAS 67-56-1 N/A
<b>Facility Identification and Site Address</b>		
Company Name	Blount Canada Ltd.,	
Facility name		
Facility Address	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4	
Spatial Coordinates of Facility	Latitude: 43.3300 Longitude: 80.1600	
Number of Employees	750	
NPRI ID	3845	
Ontario MOE ID Number	N/A	
<b>Parent Company Information</b>		
Name and Address	Blount International	4909 S.E. International Way, Portland Oregon USA
Percent Ownership	100%	
Business Number	58638040	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
2 Digit NAICS Code	33	

## Toxic Substance Reduction Plan for 2011

4 Digit NAICS Code	3328	
6 Digit NAICS Code	332810	
<b>Company Contact Information</b>		
Facility Public Contact	Edward Lebrun, General Manager	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4
	ted.lebrun@blount.ca	
	Phone: 519-822-6870	
	Fax: 519-822-1450	
<b>Parent Company Contact Information</b>		
Parent Company Contact	N/A	

### ***Plan Summary Statement***

This plan summary accurately reflects the content of the toxic substance reduction plan for lead, prepared by Blount Canada Ltd., dated December 12, 2012.

### ***STATEMENT OF INTENT***

Blount Canada Ltd. is committed to playing a leadership role in protecting the environment. Lead is currently used by Blount as a manufacturing aid in cutter manufacturing process. This facility does not create lead; therefore this plan will not address reducing its creation. Whenever feasible, we will eliminate, or reduce the use and discharge of lead in full compliance with all Federal and Provincial Regulations.

### ***REDUCTION OBJECTIVES***

Blount intends to monitor new methods and investigate ways to reduce or eliminate the use of lead. Blount intends to reduce the use of lead by 7 per cent within the next five to six years of preparing this Plan.

Toxic Substance Reduction Plan for 2011

**DESCRIPTION OF SUBSTANCE**

Lead is currently used by Blount as a manufacturing aid in cutter manufacturing process. This facility does not create lead, therefore this plan will not address reducing its creation.

**TOXIC SUBSTANCE REDUCTION OPTION TO BE IMPLEMENTED**

The following options have been identified for implementation to reduce the use and releases of lead:

- Improve operation and controls on chrome purification system to maintain quality of the plating bath and reduce consumption of materials.
- Revise the Standard Operating Procedures for the Hard Chrome Plating process and chrome purification.

**Anticipated Reductions from the implementation of the above listed options are as follows:**

Company Name: Blount Canada Ltd.

Substance: lead

CAS#: NA

Reduction Option: **Equipment or process modification – Improvements in operation and control of chrome purification system to maintain quality of the plating bath and reduce consumption of materials.**

	Used (kg/yr)	Created (kg/yr)	On-site Releases (kg/yr)			Disposal (kg/yr)		Transfer (kg/yr)	Contained in Product (kg/yr)
			Air	Water	Land	On-site	Off-site		
Baseline	3,758	0.0	2	0.0	0.0	0.0	2,100	0.0	0.0
New estimated amount	3,494	0.0	2	0.0	0.0	0.0	1,836	0.0	0.0
Reduction	264	0.0	0.0	0.0	0.0	0.0	264	0.0	0.0
%Reduction	7%	0%	0%	0%	0%	0%	12%	0%	0%

Company Name: Blount Canada Ltd.

## Toxic Substance Reduction Plan for 2011

Substance: lead

CAS#: NA

Reduction Option: **Training or improved operating practices - Revise the Standard Operating Procedures for the Hard Chrome Plating process and chrome purification.**

	Used (kg/yr)	Created (kg/yr)	On-site Releases (kg/yr)			Disposal (kg/yr)		Transfer (kg/yr)	Contained in Product (kg/yr)
			Air	Water	Land	On-site	Off-site		
Baseline	3,758	0.0	0.002	0.0	0.0	0.0	2,100	0.0	0.0
New estimated amount	3,494	0.0	0.002	0.0	0.0	0.0	1,836	0.0	0.0
Reduction	264	0.0	0.0	0.0	0.0	0.0	264	0.0	0.0
%Reduction	7%	0%	0%	0%	0%	0%	12.6%	0%	0%

It is expected that these reductions will be achieved within five to six years.

# Toxic Substance Reduction Plan Methanol Summary

**BLOUNT**



**D. Basic Facility Information**

Name and CAS# of Substance	Methanol	CAS 67-56-1
Substances for which other plans have been prepared	Hydrochloric Acid	CAS 7647-01-0
	Hexavalent Chromium Compounds	N/A
	Lead	N/A
<b>Facility Identification and Site Address</b>		
Company Name	Blount Canada Ltd.,	
Facility name		
Facility Address	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4	
Spatial Coordinates of Facility	Latitude: 43.3300 Longitude: 80.1600	
Number of Employees	750	
NPRI ID	3845	
Ontario MOE ID Number	N/A	
<b>Parent Company Information</b>		
Name and Address	Blount International	4909 S.E. International Way, Portland Oregon USA
Percent Ownership	100%	
Business Number	58638040	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
2 Digit NAICS Code	33	
4 Digit NAICS Code	3328	

## Toxic Substance Reduction Plan for 2011

6 Digit NAICS Code	332810	
<b>Company Contact Information</b>		
Facility Public Contact	Edward Lebrun, General Manager	505 Edinburgh Road North, Guelph, Ontario, N1H 6L4
	ted.lebrun@blount.ca	
	Phone: 519-822-6870	
	Fax: 519-822-1450	
<b>Parent Company Contact Information</b>		
Parent Company Contact	N/A	

### ***Plan Summary Statement***

This plan summary accurately reflects the content of the toxic substance reduction plan for methanol, prepared by Blount Canada Ltd., dated December 12, 2012.

### ***STATEMENT OF INTENT***

Blount Canada Ltd. is committed to playing a leadership role in protecting the environment. Methanol is currently used by Blount as a manufacturing aid in heat treatment process. This facility does not create methanol; therefore this plan will not address reducing its creation. Whenever feasible, we intend to reduce or eliminate the use of this toxic substance at the facility in full compliance with all Federal and Provincial Regulations.

### ***REDUCTION OBJECTIVES***

Blount intends to monitor new methods and investigate ways to reduce or eliminate the use of lead. Blount intends to reduce the use of methanol by 1% over the next 5 years of preparing this Plan.

### ***DESCRIPTION OF SUBSTANCE***

Methanol is used in Blount as a manufacturing aid in parts heat treatment process. This facility does not create methanol; therefore this plan will not address reducing its creation.

**TOXIC SUBSTANCE REDUCTION OPTION TO BE IMPLEMENTED**

The following option has been identified for implementation to reduce the use and releases of methanol:

- Review and revise Standard Operating Procedures (SOP) for staff operating heat treatment equipment using methanol.

**Anticipated Reductions from the implementation of the above listed options are as follows:**

Company Name: Blount Canada Ltd.

Substance: methanol

CAS#: 67-56-1

Reduction Option: **Training or improved operating practices – Review and revise Standard Operating Procedures (SOP) for staff operating heat treatment equipment using methanol.**

	Used (t/yr)	Created (t/yr)	On-site Releases (t/yr)			Disposal (t/yr)		Transfer (t/yr)	Contained in Product (t/yr)
			Air	Water	Land	On-site	Off-site		
Baseline	247.800	0.0	0.62	0.0	0.0	0.0	0.406	0.0	0.0
New estimated amount	245.322	0.0	0.00	0.0	0.0	0.0	0.406	0.0	0.0
Reduction	2.478	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%Reduction	1%	0%	0%	0%	0%	0%	0%	0%	0%

It is expected that these reductions will be achieved within five years.

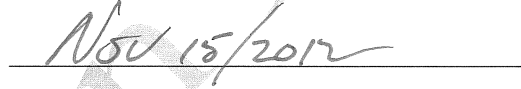
### 7. Planner Recommendations and Rationale

The planner's recommendations and rationale for those recommendations are appended to the plan.

### 8. Plan Certifications for Hexavalent Chromium

As of December 12, 2012, I, Edward Lebrun, 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

**(Hexavalent Chromium)**

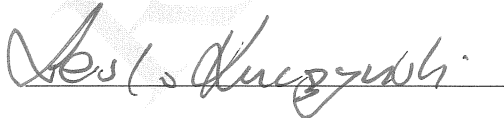


Edward Lebrun  
General Manager, Blount Canada Ltd.  
(Highest Ranking Employee)

Date

As of December 12, 2012, I, Les Kuczynski certify that I am familiar with the processes at Blount Canada 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 November 30, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

**(Hexavalent Chromium)**




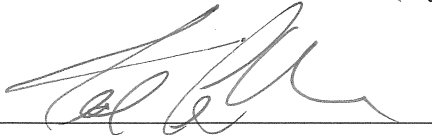
Les Kuczynski P.Eng.  
Toxic Substance Reduction Planner  
License #TSRP0093

Date

### 8. Plan Certifications for Hydrochloric Acid

As of December 12, 2012, I, Edward Lebrun, 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

**(Hydrochloric Acid)**



Edward Lebrun

Date

General Manager, Blount Canada Ltd.

(Highest Ranking Employee)

As of December 12, 2012, I, Les Kuczynski certify that I am familiar with the processes at Blount Canada 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 November 30, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

**(Hydrochloric Acid)**



Les Kuczynski P.Eng.

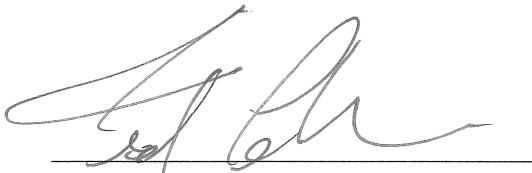
Date

Toxic Substance Reduction Planner

License #TSRP0093

### 8. Plan Certifications for Lead

As of December 12, 2012, I, Edward Lebrun, 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



(Lead)



Edward Lebrun

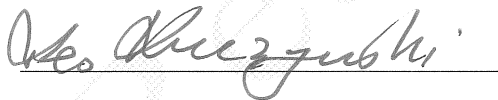
Date

General Manager, Blount Canada Ltd.

(Highest Ranking Employee)

As of December 12, 2012, I, Les Kuczynski certify that I am familiar with the processes at Blount Canada 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 November 30, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

(Lead)



Les Kuczynski P. Eng.

Date

Toxic Substance Reduction Planner


License #TSRP0093

Confidential

### 8. Plan Certifications for Methanol

As of December 12, 2012, I, Edward Lebrun, 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


**(Methanol)**



Edward Lebrun

General Manager, Blount Canada Ltd.

(Highest Ranking Employee)



Date

As of December 12, 2012, I, Les Kuczynski certify that I am familiar with the processes at Blount Canada 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 November 30, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

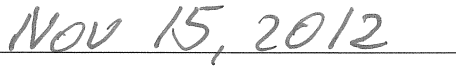
**(Methanol)**



Les Kuczynski P.Eng.

Toxic Substance Reduction Planner

License #TSRP0093



Date