



**Toxics Substance Reduction Plan Summary
For
CHROMIUM (CAS # NA-04)**

**Vesuvius Canada Inc.
333 Prince Charles Drive
Welland, Ontario
L3C 5A6**

December 5, 2012
Pinchin File: 79869

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EXECUTIVE SUMMARY

Vesuvius Canada is a manufacturer of refractory materials for high temperature applications. They operate a facility located at 333 Prince Charles Drive, in Welland. The facility uses chromium oxide as an additive in certain refractory compound mixes and cast shapes. This Toxic Substance Reduction Plan Summary has been prepared to evaluate potential options to reduce the use of chromium at the facility. The facility has identified that the revision and implementation of an updated training program to ensure raw material bags are fully emptied into mixing vessels as the potential to reduce the use of chromium by 1% and the disposal of chromium by 39%, with implementation to be complete by December 2014, at an annual savings of \$4082.

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1.0 BASIC FACILITY INFORMATION

Substance Information		
Name	Chromium	
CAS #	NA – 04	
Facility Information		
Company Name	Vesuvius Canada	
Facility Name	Welland Plant	
Facility Address	333 Prince Charles Drive, Welland, L3C 5A6	
Site Coordinates (main entrance of site)	641933.7 E, 4760150.6 N; Zone 17	
NPRI ID	4622	
MOE ID		
Number of Full-Time Employees in 2011	63	
2-Digit NAICS Code	31-33 Manufacturing	
4-Digit NAICS Code	3271 – Clay Product and Refractory Manufacturing	
6-Digit NAICS Code	327120 – Clay Building Material and Refractory Manufacturing	
Facility Contact Information		
Public Contact	Tom Serravalle Manager – Operations and Technical Services 905-732-4441 x 2224	Tom.serravalle@ca.vesuvius.com Address – same a facility

2.0 STATEMENT OF INTENT

After evaluating the reduction options described in this Plan, Vesuvius Canada intends to reduce the use of chromium at their facility in Welland through the implementation of revised training and operating practices in order to ensure staff are maximizing the efficiency of use of raw materials.

3.0 OBJECTIVES OF THE PLAN & ANY TARGETS

By December 2014, the facility plans to have the revised training and operating practices described in this plan fully implemented and anticipates an annual reduction in the use of chromium by 1%, or 408 kg.

4.0 PROCESS DESCRIPTION

Chromium is contained in chromium oxide, which is used in the manufacturing of refractory materials and cast refractory shapes.

5.0 OPTIONS TO BE IMPLEMENTED

The facility will implement a revised training and operating procedure to ensure raw material bags are fully emptied before disposal. Anticipated reductions from the implementation of this option are as follows:

	Used	Releases			Disposal (offsite)	Recycling (offsite)	Contained in Product
		Air	Land	Water			
% Reduction	1%	0%	n/a	n/a	39%	n/a	0%
Reduction (tonnes)	0.41	0	n/a	n/a	0.41	n/a	0

This procedure will be reviewed, updated and monitored during the 2013 calendar year and is expected to be fully implemented by December 31, 2013. Anticipated reductions are expected to be fully achieved by the end of the 2014 calendar year.

6.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plan dated December 5, 2012, prepared for the substances listed in Section 1.0 of this Summary.

7.0 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 5, 2012, I certify that I have read the toxic substance reduction plan for chromium and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act, 2009* and the Ontario Regulation 455/09 (General) made under that Act.



Tom Serravalle
Manager – Operations and Technical Services
Vesuvius Canada

8.0 CERTIFICATION BY LICENSED PLANNER

As of December 5, 2012, I certify that I am familiar with the processes at Vesuvius Canada that use or create chromium, 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* and the Ontario Regulation 455/09 (General) made under that Act.



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Pinchin Master Report Guide, Ver. 1, May 2007

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