

Basic Facility Information

Facility Information		
Company Name	Canada Alloy Castings, a division of Inossman North American Corp.	
Facility Address	529 Manitou Drive, Kitchener, ON N2C 1S2	
Site Coordinates (main entrance of site)	17 T 611347.64 E, 4816078.35 N	
NPRI ID	151	
MOE ID	9428	
Number of Full-Time Employees in 2016	39	
2-Digit NAICS Code	33 – Manufacturing	
4- Digit NAICS Code	3315 – Foundries	
6-Digit NAICS Code	331514 – Steel Foundries	
Substance Information		
Substance Name	CAS #	
Copper (and its compounds)	NA – 06	
Facility Contact Information		
Public Contact	Mitch Clarke, General Manager 529 Manitou Drive Kitchener, ON N2C 1S2	mitchclarke@cac.ca P: 519-895-1161 x238

1. STATEMENT OF INTENT

Canada Alloy Castings, a division of Inossman North America Corp (CAC) is committed to identifying options to reduce the use of toxic substances where feasible. The use of copper is an integral part of the products that we manufacture, and it is therefore not technically or economically feasible to reduce. We will continue to use these substances in strict accordance with all applicable environmental regulations.

2. OBJECTIVES OF THE PLAN & TARGETS (IF ANY)

The objectives of this plan are to:

- identify potential toxic substance reduction options for copper;
- assess the technical and economic feasibility of reduction options, if any are identified; and
- determine which options, if any, are feasible for implementation.

As part of the continual improvement practices at the facility, technical advances will be monitored for new opportunities to reduce the use of copper at the facility.

3. DESCRIPTION OF WHY THE TOXIC SUBSTANCE IS USED OR CREATED

Copper is identified as a composition of aluminum bronze materials that is processed at the facility. Pure copper alloy is also processed at the facility. Aluminum bronze, is a copper-based alloy which contains 79% copper. It enhances mechanical and physical properties of the material. Aluminum bronze and copper itself provides high strength, corrosion and wear resistance, high thermal and electrical conductivity, as well as non-spark benefits. The products manufactured at the facility are produced using received raw metal castings comprising of copper. Copper is essential for the properties it delivers to the alloy.

Copper is not created at the facility.

4. OPTIONS TO BE IMPLEMENTED (OR STATEMENT THAT NONE ARE TO BE IMPLEMENTED)

With the facility's continuous improvement measures and acknowledgement that the customers provide the specifications for the raw materials processed at the facility, no additional options are currently available to implement that are technically or economically feasible. Technical and economic feasibility analysis are not included in the plan since no reduction option was identified.

The facility will continue to make improvements to processes and programs where feasible.

5. ESTIMATED REDUCTIONS UNDER THE OPTIONS SELECTED (IF ANY)

Not applicable.

6. TIMELINES FOR ACHIEVING ESTIMATED REDUCTION (IF ANY)

Not applicable.

7. CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plans dated December 4, 2018, prepared for the substances listed in Section 1.0 of this Summary.

8. COPY OF CERTIFICATIONS

Certification by highest ranking employee

As of Dec 31, 2018, I, Mitch Clarke, certify 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 comply with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

Copper (and its compounds)



Mitch Clarke
General Manager
Canada Alloy Castings

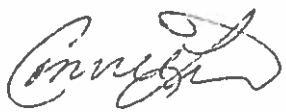
12/31/18

Date

Certification by toxic substance reduction planner

As of December 4, 2018, I, Connie Lum, certify that I am familiar with the processes at Canada Alloy Castings 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 toxic substance reduction plans referred to below for the toxic substances and that the plans comply with that Act and Ontario Regulation 455/09 (General) made under that Act.

Copper (and its compounds)



Connie Lum, B.Sc., EP
Toxic Substance Reduction Planner (TSRP0089)
EnviroLum Consulting Inc.

December 4, 2018

Date