

# Toxic Substance Reporting 2020

In 2009, the Government of Ontario passed the Toxics Reduction Act, 2009 (the "Act"). The goal of this Act and associated Regulation 455/09 (the "Regulation") is to help protect human health and the environment by:

- reducing prescribed toxic substances in air, land, water and consumer products
- informing people in Ontario about toxic substances in their communities
- giving Ontarians the information they need to make informed choices
- supporting shifts in domestic market to greener products
- positioning Ontario's manufacturing and mineral processing sectors to compete in an increasingly green global economy

In accordance with the Act, facilities must submit a report for a toxic substance if subsection 3 (1) of the Act applied to the facility with respect to the toxic substance in the previous calendar year.

## 1.0 FACILITY INFORMATION

FACILITY INFORMATION	
Company Name	Samuel Son & Co. Limited
Facility Name	Samuel Son & Co. Limited – Stoney Creek
Facility Address	Physical Address: 12 Teal Avenue Stoney Creek, ON L8E 3Y5
	Mailing Address: 12 Teal Avenue Stoney Creek, ON L8E 3Y5
Spatial Coordinates of Facility	602996 m Easting, 4787848 m Northing (UTM NAD83 Zone 17)
Number of Employees	31
NPRI ID	11782
CANADIAN PARENT COMPANY	
Parent Company Name	Samuel Son & Co. Limited
Parent Company Address	1900 Ironoak Way, Oakville, ON L6H 0N1
Percent Ownership for Parent Company	100%
PRIMARY NORTH AMERICAN INDUSTRIAL CLASSIFICATION SYSTEM CODE (NAICS)	
2 Digit NAICS Code	31-33 - Manufacturing
4 Digit NAICS Code	3323 - Architectural & Structural Metal Mfg.
6 Digit NAICS Code	332319 – Other Plate Work & Structural Metal Mfg.
CONTACT INFORMATION	
Facility Public Contact	Oreste Di Leonardo Operations Manager 12 Teal Avenue Stoney Creek, ON L8E 3Y5 Tel: (905) 561-7811 x 13015 Oreste.DiLeonardo@Samuel.com

## 2.0 FACILITY DESCRIPTION

Samuel Son and Co. Limited – Stoney Creek (hereafter “Samuel”) produces cut-to-order steel plate from cold and hot rolled sheet steel. Large sheets of carbon steel plate ranging in thickness from ½ inch to 6 inches are received and cut into specific sizes and shapes at the facility. Physical processes such as cutting and grinding are used at the facility, with cuts made by plasma or flame gas (oxygen). Stainless steel is also cut using plasma cutters at the facility.

## 3.0 TOXIC SUBSTANCE INFORMATION

This report is being prepared for manganese and its compounds (CAS Number NA - 09), chromium and its compounds (CAS Number NA - 04) and nickel and its compounds (CAS Number NA - 11).

## 4.0 REDUCTION PLAN OBJECTIVES AND TARGETS

Manganese is a component of carbon steel plate and stainless steel that is processed at the facility. Chromium and nickel are both primarily components of stainless steel. The substances are released from the product steel, as scrap or as slag/dust that are sent off-site for recycling.

For manganese, there were no reduction actions taken during this reporting period as they were completed in previous reporting years.

The Toxic Reduction Plan guides Samuel in finding methods to reduce the losses of residues of manganese (CAS Number 7439-96-5) from the production processes. As manganese is a key component in the steel brought into the facility, its' elimination is not a viable option. Manganese is an essential component providing the necessary strength to the steel processed at Samuel.

For chromium and nickel, there were no reduction actions taken during the reporting year. Samuel will continue to conduct further research to identify new reduction options and to keep up with industry standards with regards to pollution prevention of these substances.

## 5.0 SUBSTANCE ACCOUNTING

**Table 1** below provides information on the quantification results for the 2020 calendar year and compares them to the previous reporting year. The amounts of the toxic substances varied due to decreases in production and a slight modification in calculation methods for the carbon plate. There was no significant process change at the facility during this reporting period. No incident outside of normal operations at the facility occurred during this reporting period that may have affected the quantification results.

## **6.0 PLAN PROGRESS AND AMENDMENT**

All actions put forth in the TRA plan have been completed in previous reporting years. However, training continues on a routine basis, leading to scrap reduction. Training of staff allows for better utilization of all parts of the plate, resulting in scrap reduction. An annual review of Best Operating Practices occurs every year. No amendments were made to the Toxic Reduction Act Plan for Manganese.

No steps have been taken to reduce nickel or chromium used at the facility during this reporting period. No amendments have been made to those Plans during this reporting period.

## **7.0 MANGANESE REDUCTION OPTIONS UNDER CONSIDERATION FOR IMPLEMENTATION:**

Ongoing Best Operating Practices such as minimizing skeleton sizes for recycling and using remnants (drops) for secondary products will continue to be implemented. A "Filler Part Program" will be implemented, where applicable, to reduce scrap sent for recycling.

## **8.0 MANGANESE ADDITIONAL ACTIONS AND THEIR IMPACT ON SUBSTANCE USE, CREATION AND DISCHARGE:**

None



**Table 1 Substance Accounting for the 2020 Calendar Year**

Substance (CAS No.)	Reporting Year	MPO <sup>1</sup> /Used			Released to Air			Recycled			Contained in Product		
		Quantity (tonnes)	Change (tonnes)	Change (%)	Quantity (tonnes)	Change (tonnes)	Change (%)	Quantity (tonnes)	Change (tonnes)	Change (%)	Quantity (tonnes)	Change (tonnes)	Change (%)
Manganese (and its compounds) CAS#: NA - 09	2020	>10 to 100	+4.75	+5.46	>0 to 1	-0.0003	-60.0	>10 to 100	-11.96	-44.17	>10 to 100	+16.71	+27.89
	2019	> 10 to 100			>0 to 1			>10 to 100					
Chromium (and its compounds) CAS#: NA - 04	2020	>10 to 100	-8.95	-16.69	>0 to 1	-0.0003	-75.0	>1 to 10	-10.28	-54.45	>10 to 100	+1.32	+3.8
	2019	> 10 to 100			>0 to 1			>10 to 100					
Nickel (and its compounds) CAS#: NA - 11	2020	> 10 to 100	-4.53	-16.14	>0 to 1	-0.0001	-50.0	>1 to 10	-5.42	-53.98	>10 to 100	+0.88	+4.88
	2019	> 10 to 100			>0 to 1			>10 to 100					

<sup>1</sup>MPO – Manufactured, Processed, or Otherwise Used

## 7.0 COPY OF CERTIFICATION

As of September 30, 2021, I, Oreste Di Leonardo, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

**Manganese (and its compounds) (CAS RN NA – 09)**

**Chromium (and its compounds) (CAS RN NA – 04)**

**Nickel (and its compounds) (CAS RN NA – 11)**

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by signing below I am signing the statement(s). I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.



Oreste Di Leonardo

Operations Manager

Samuel Son and Co. Limited – Stoney Creek

(Highest Ranking Employee)