

Ontario Toxics Reduction Plan Summary
Public Disclosure – Yr. 2020

Facility Details

Facility Name: H & S Heat Treating
Address: 133 South Street North, Port Robinson, Ontario, L0S
1K0
NPRI Identification Number: 04531
Two Digit NAICS Code: 31 – 33 – Manufacturing
Four Digit NAICS Code: 3329 – Other Fabricated Metal Products Mfg.
Six Digit NAICS Code: 332999 – All Other Miscellaneous Fabricated Metal
Products Mfg.
Number of Full-Time Employees: 40
UTM Spatial Co-ordinates: X(E): 645850; Y(N): 4767490; (43.0461, -79.2093)

Public Contact at Facility

Name: Wendy Bowen
Position: Controller
Address: 133 South Street North, Port Robinson, Ontario L0S
1K0
Office Phone Number: (905) 384-9355

Facility Description

The H & S Heat Treating Facility uses natural gas-fired furnaces to heat-treat a variety of metal parts produced elsewhere by manufacturers in the automotive and other industries. The main purpose of the heat-treating is to alter the hardness of the metal parts.

Substances Information

Emissions from the Site consist of natural gas combustion products from process furnaces and comfort heating units, solvent emissions from laboratory operations and particulate matter from process operations as well as cooling towers. Two substances, PM10 (TRA identifier No. NA-M09), PM2.5 (TRA identifier No. NA-M10) are created and discharged from the site, while Ammonia (CAS No. 7664-41-7, TRA identifier No. NA - 16) is used in the process and destroyed with no emissions.

Substance Accounting Details – Particulate Matter Less than 10 micron (NA-M09)

Process Type	Particulate Matter less than 10 micron (PM ₁₀) (NA-M09) (tonnes/yr)		
	2020	2019	Change (%)
Enters	0	0	0
Created	>0 to 1	>0 to 1	-41.8
Destroyed or Transformed	0	0	0
Released, as Air Emissions	>0 to 1	>0 to 1	-41.8
In product	0	0	0

Substance Accounting Details – Particulate Matter Less than 2.5 micron (NA-M10)

Process Type	Particulate Matter less than 2.5 micron (PM _{2.5}) (NA-M09) (tonnes/yr)		
	2020	2019	Change (%)
Enters	0	0	0
Created	>0 to 1	>0 to 1	-28.8
Destroyed or Transformed	0	0	0
Released, as Air Emissions	>0 to 1	>0 to 1	-28.8
In product	0	0	0

Historical Comparison

Particulate matter emissions have decreased from year 2019 to year 2020. Hardener quenching and welding emissions have decreased from year 2019 to year 2020.

Reduction Plan Objectives and Targets:

The Toxic Reduction Plan will guide H&S in investigating methods to reduce the unit amount of ammonia used to produce carbonitrided parts in the production process. As this compound is presently a key component of the production process, its elimination is not a viable option. The Toxic Reduction Plan will guide H&S in investigating methods to reduce the unit amount of PM10 and PM2.5 generated and released during the production process and from ancillary processes.

Reduction Options Under Consideration for Implementation:

Continued training to emphasize good operating practices to assist in reducing the unit amount of ammonia used in the process as well as reducing the amount of particulate matter generated.

Additional Actions and Their Impact on Substance Use, Creation and Discharge:

Annual P2 review meetings and annual Best Operating Practices refresher courses will be conducted for continued improvement.

Amendments or Changes to Toxic Reduction Plans During Report Period:

No amendments or changes have been made to the facility's toxics reduction plan.

Copy of Certification:

As of date, I, Remo Assini, certify that I have read the toxic substance reduction plan for the substances listed 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 (General) made under that Act.

Particulate Matter less than 10 Micron (PM10)
Particulate Matter less than 2.5 Micron (PM2.5)



Remo Assini
President IMT Precision
H&S Heat Treating
(Highest Ranking Employee).

Sep/8/2021

Date