

**Toxics Reduction Act Public Annual Report - Calendar 2019**

The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address.(See below)	GKN Sinter Metals 7 Michigan Boulevard  St. Thomas ON N5P 1H1	
Facility NPRI identification number	01461	
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.	-	
Number of full-time employees	160	
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31 - 33 Manufacturing 3363 - Motor Vehicle Parts Mfg. 336350 - MV Transmission & Power Train Parts Mfg.	
If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public:		
Public Contact (if applicable)	Jamie Blondin	
Title	HSE Specialist	
Phone Number	(519) 637-4209	
Address of each person below if not the same as the facility		
Facility Name	GKN Sinter Metals	
Address 1	7 Michigan Boulevard	
Address 2		
City	St. Thomas	
Province	ON	
Postal Code	N5P 1H1	
UTM coordinates, x and y	X 486820	Y 4736487
Datum	WGS84	
Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company		
Parent company name	GKN Sinter Metals	
Address 1	7 Michigan Boulevard	
Address 2		
City	St. Thomas	
Province	ON	
Postal Code	N5P 1H1	
Percent Ownership	100%	

### Substance Accounting

Substance:	Copper (and its cpds)								
CAS Number:	NA - 06								
On a facility-wide basis:									
Amount that entered the facility as the substance itself or as a constituent of another substance:	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="width: 50%;">Amount</th> <th style="width: 50%;">Units</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">156.262</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">0.000</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">142.346</td> <td style="text-align: center;">Mg</td> </tr> </tbody> </table>	Amount	Units	156.262	Mg	0.000	Mg	142.346	Mg
Amount	Units								
156.262	Mg								
0.000	Mg								
142.346	Mg								
The amount of substance that was created:	0.000 Mg								
The amount of substance that was contained in product:	142.346 Mg								
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>									

Substance:	Nickel and its compounds								
CAS Number:	NA-11								
On a facility-wide basis:									
Amount that entered the facility as the substance itself or as a constituent of another substance:	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="width: 50%;">Amount</th> <th style="width: 50%;">Units</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">15.578</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">0.000</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">14.188</td> <td style="text-align: center;">Mg</td> </tr> </tbody> </table>	Amount	Units	15.578	Mg	0.000	Mg	14.188	Mg
Amount	Units								
15.578	Mg								
0.000	Mg								
14.188	Mg								
The amount of substance that was created:	0.000 Mg								
The amount of substance that was contained in product:	14.188 Mg								
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>									

Substance:	Particulate Matter ≤ 10 µm								
CAS Number:	NA-M09								
On a facility-wide basis:									
Amount that entered the facility as the substance itself or as a constituent of another substance:	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="width: 50%;">Amount</th> <th style="width: 50%;">Units</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0.000</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">1.430</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">0.000</td> <td style="text-align: center;">Mg</td> </tr> </tbody> </table>	Amount	Units	0.000	Mg	1.430	Mg	0.000	Mg
Amount	Units								
0.000	Mg								
1.430	Mg								
0.000	Mg								
The amount of substance that was created:	1.430 Mg								
The amount of substance that was contained in product:	0.000 Mg								
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>									

Substance:	Particulate Matter ≤ 2.5 µm								
CAS Number:	NA-M10								
On a facility-wide basis:									
Amount that entered the facility as the substance itself or as a constituent of another substance:	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="width: 50%;">Amount</th> <th style="width: 50%;">Units</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0.000</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">1.216</td> <td style="text-align: center;">Mg</td> </tr> <tr> <td style="text-align: center;">0.000</td> <td style="text-align: center;">Mg</td> </tr> </tbody> </table>	Amount	Units	0.000	Mg	1.216	Mg	0.000	Mg
Amount	Units								
0.000	Mg								
1.216	Mg								
0.000	Mg								
The amount of substance that was created:	1.216 Mg								
The amount of substance that was contained in product:	0.000 Mg								
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>									

**Comparison of Annual Reported Amounts**

Substance	CASRN	Report Year	Used	Created	In Product	Air	Water	Disposal	Recycle
Copper (Units Mg)	NA - 06	2018	187.585	0.000	157.535	0.00115	0.000	0.000	30.049
		2019	156.262	0.000	142.346	0.00110	0.000	0.000	13.915
		Change	-31.323	0.000	-15.188	0.0000	0.000	0.000	-16.134
		% Change	-16.70%	0.00%	-9.64%	-3.72%	0.00%	0.00%	-53.69%
Nickel (Units Mg)	NA - 11	2018	58.853	0.000	49.422	0.0040	0.000	0.000	9.427
		2019	15.578	0.000	14.188	0.0038	0.000	0.000	1.387
		Change	-43.275	0.000	-35.234	0.000	0.000	0.000	-8.040
		% Change	-73.53%	0.00%	-71.29%	-3.72%	0.00%	0.00%	-85.29%
PM10	NA-M09	2018	0.000	1.441	NA	1.441	NA	NA	NA
		2019	0.000	1.430	NA	1.430	NA	NA	NA
		Change	0.000	-0.011	NA	-0.011	NA	NA	NA
		% Change	NA	-0.75%	NA	-0.75%	NA	NA	NA
PM2.5	NA-M10	2018	0.000	1.219	NA	1.219	NA	NA	NA
		2019	0.000	1.216	NA	1.216	NA	NA	NA
		Change	0.000	-0.003	NA	-0.003	NA	NA	NA
		% Change	NA	-0.22%	NA	-0.22%	NA	NA	NA

**Annual Progress Report - Calendar 2019**

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Copper (and its cpds)	NA - 06
Nickel and its compounds	NA-11
Particulate Matter ≤ 10 µm	NA-M09
Particulate Matter ≤ 2.5 µm	NA-M10

**Plan Objectives**

All employees at GKN will be involved in the reduction of toxic substance use, creation and releases. Our goal is to reduce the use and release of Copper (and its compounds), Nickel (and its compounds), PM<sub>10</sub>, and PM<sub>2.5</sub>. GKN is unable to further reduce the use and/or creation of Copper, Nickel, PM<sub>10</sub>, and PM<sub>2.5</sub> however we will ensure sound management that minimizes the use, creation and releases of these substances to mitigate any adverse impacts on human health and the environment.

**Toxics Reduction Progress**

The current year saw a decrease in the total quantity of Nickel and Copper used by the facility and contained in product as the overall production and percentage of Nickel and Copper in the total metal powder used at the facility decreased in 2019. In terms of quantities of Copper and Nickel recycled, the current year saw decreases in the amount of these substances sent off-site for recycling as a direct result of a decrease of off-specification parts, green parts and scrap powder sent off site for recycling. The quantity of Nickel and Copper released to the air decreased due to a decrease in facility production in 2019. Creation and release of PM<sub>10</sub> and PM<sub>2.5</sub> remained unchanged as the facility and cooling tower operating hours were unchanged.

**Plan Implementation Progress**

No technically and economically feasible reduction options for Nickel, PM<sub>10</sub>, and PM<sub>2.5</sub> were identified for the facility. One reduction option for Copper (and its compounds) involved increasing the compaction of tonnage where opportunities existed as dictated by the customer. This opportunity was thought to be limited and only applicable to the smaller components created at the facility.

## Certification Statement - Calendar 2019

As of **July 31, 2020** I certify that I have read the reports on the toxic substance reduction plans for the above noted substances 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 the Act.

The original version of this report is signed off by: Highest Ranking Employee:

Title:

Phone Number:

Dan Brown
Plant Manger
(519) 631-4880

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. 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.