

Plan Summary  
PowerCor Manufacturing a Division of Linamar Holdings  
Guelph Ontario

<b>Name &amp; CAS # of Substance</b>	Manganese	7439-96-5
<b>Facility Identification and Site Address</b>		
<b>Company Name</b>	Linamar Holdings Inc.	
<b>Facility Name</b>	PowerCor Manufacturing a Division of Linamar Holdings Inc.	
<b>Facility Address</b>	<b>Physical Address:</b>	<b>Mailing Address: (if different)</b>
	545 Elmira Road North Guelph Ontario N1K 1C2	
<b>Spatial Coordination of Facility</b>	Easting: Northing: 43.538143,-80.312247	
<b>Number of Employees</b>	241	
<b>NPRI ID</b>	26312	
<b>Ontario MOE ID Number</b>		
<b>Parent Company (PC) Information</b>		
<b>PC Name &amp; Address Percent</b>	Linamar Corporation, 287 Speedvale Avenue West, Guelph, Ontario N1H 1C5 100 percent	
<b>Business Number for PC</b>	103333662	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
<b>2 Digit NAICS Code</b>	33 Manufacturing	
<b>4 Digit NAICS Code</b>	3361 - Motor Vehicle Manufacturing	
<b>6 Digit NAICS Code</b>	336110 - Automobile and light-duty motor vehicle manufacturing	
<b>Company Contact Information</b>		
<b>Facility Public Contact</b>	Ms Allison Hipel	
	Allison.Hipel@linamar.com	
	Phone: (226) 326-0125 X604	Same address as facility
	Fax: ((226) 326-0124	
<b>Facility Technical Contact</b>	Mr Gino Armellini	
	Gino.armellini@linamar.com	
	Phone: (226) 326-0125 X602	Same address as facility
	Fax: (226) 326-0124	

## **Plan Summary Statement**

This plan summary reflects the content of the toxic substance reduction plan for PowerCor Manufacturing a Division of Linamar Holdings Inc. for Manganese.

## **Statement of Intent**

PowerCor Manufacturing a Division of Linamar Holdings Inc. (PowerCor) is committed to playing a leadership role in protecting the environment. Whenever feasible, we will reduce the use of Manganese in compliance with all Federal and Provincial Regulations.

## **Objectives**

PowerCor prides itself on technological innovation in order to produce high quality automotive parts in an environmentally responsible manner. Through this plan, PowerCor will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

## **Reduction Options to be implemented**

The following options have been identified for implementation to reduce the use and/or amount of Manganese transferred:

- Work with suppliers to reduce foundry defects received
- Implement training practices/procedures amongst machine operators to reduce scrap materials

### **Work with suppliers to reduce foundry defects received.**

This option is an on-going procedure at PowerCor, with annual reduction targets that will change from year to year. The schedule for this reduction option is given below:

Step	Description	Estimated Timelines
1	Discussions with foundry supplier	January 2014 - Ongoing
2	Implement improvements to inventory management system	January 2014 – Ongoing
3	Timeline for implementation of manganese reductions	End of January 2015

**Implement training practices/procedures amongst machine operators to reduce scrap materials**

This option is an on-going procedure at PowerCor, with annual reduction targets that will change from year to year. The schedule for this reduction option is given below:

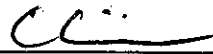
Step	Description	Estimated Timelines
1	Review scrap procedures and identify improvement opportunities	January 2014 – ongoing
2	Provide Training Sessions to Operators on handling scrap	Annually
3	Timeline for implementation of Manganese Reductions	End of 2015

PowerCor has carefully reviewed the toxic substance use reduction options to ensure that there is no net negative impact to the environment or public health. The selected options will serve to reduce the amount of Manganese used in the process, and will not create any toxic by-products.

**CERTIFICATION BY HIGHEST RANKING EMPLOYEE**

As of December 16, 2013, I, Gino Armellini, certify that I have read the toxic substance reduction plan for the toxic substance referred to 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.

Manganese



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Gino Armellini  
Operations Manager

PowerCor Manufacturing a Division of Linamar Holdings Inc.

**CERTIFICATION BY LICENSED PLANNER**

As of December 16, 2013, I, Melissa Gould, certify that I am familiar with the processes at PowerCor that use or create the toxic substance 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 plan dated December 16, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Manganese



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Melissa Gould TSRP0259  
EHS Specialist

Linamar Gear a Division of Linamar Corporation