

PLAN SUMMARY

CORVEX Manufacturing

12 Independence Place

Guelph, Ontario, Canada

N1K 1H8

Facility Information		
Name & CAS # of Substance	Manganese	7439-96-5
Substances for which other plans have been prepared	Nickel	7440-02-0
Facility Identification and Site Address		
Company Name	Linamar	
Facility Name	Corvex Manufacturing	
Facility Address	12 Independence Place, Guelph, ON N1K 1H8	
Spatial Coordinates of Facility	Northing 4820281.309 Easting 556559.962	
Number of Employees	160 approx.	
NPRI ID	7259	
Ontario MOE ID Number		
Parent Company (PC) Information		
PC Name & Address	Linamar Corporation, 287 Speedvale Ave. West, Guelph, ON N1H 1C5	
Percent Ownership of PC	100%	
Business Number for PC	103333662	
Primary North American Industrial Classification System Code (NAICS)		
2 Digit NAICS Code	33	
4 Digit NAICS Code	3363	
6 Digit NAICS Code	336390	
Company Contact Information		
Facility Public Contact	Mr. John Graham	
	General Manager	
	519-763-7786	
Parent Company Contact Information		
Parent Company Contact	Not Applicable	

PLAN SUMMARY STATEMENT

This plan summary reflects the content of the toxic substance reduction plan for CORVEX MANUFACTURING for MANGANESE, prepared by Jeff King (EHS Specialist for Corvex Manufacturing) and Melissa Gould (Toxic Reduction Planner, Planner License #TSRP0259).

STATEMENT OF INTENT

CORVEX MANUFACTURING is committed to playing a leadership role in protecting the environment. Whenever feasible, CORVEX MANUFACTURING will eliminate and reduce the use of MANGANESE in full compliance with all Federal and Provincial Regulations.

REDUCTION OBJECTIVES

CORVEX MANUFACTURING prides itself on technical innovation in order to produce high quality automotive components in an environmentally responsible manner.

This plan documents the options available to CORVEX MANUFACTURING to optimize the use of MANGANESE at the facility.

The following option(s) has been identified for implementation to reduce the use MANGANESE:

- Use scrap parts for machine set-up purposes – it is estimated that this will reduce scrap by 5-7% and the target implementation is due by end of 2013
- Order less raw material – it is estimated that this will reduced the amount used by 15% and the target implementation is due by end of 2013
- Training for Personnel - Training can teach employees how to effectively make sure they are building parts to the correct size. Improvements to the procedure can assist CORVEX MANUFACTURING in identifying errors earlier to reduce the amount of rejected parts we send to recycling. This effort will therefore reduce the amount of MANGANESE used. It is estimated that this will reduce total MANGANESE usage across applicable product lines. Implementation and education on this practice is on-going.
- This facility does not create MANGANESE, therefore the plan does not address reducing its creation.

<i>Compound</i>	<i>CAS No.</i>	<i>Amount</i>	<i>Amount</i>	<i>Air Release</i>	<i>Amount</i>	<i>Amount</i>	<i>Amount</i>
		<i>Used</i>	<i>Created</i>	<i>Estimate</i>	<i>Disposed</i>	<i>Transferred</i>	<i>Contained in Product</i>
		<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>
Manganese	7439-96-5	167.73	NA	NA	NA	36.166	131.559

DESCRIPTION OF SUBSTANCE

MANGANESE is a toxic substance which enters the facility at the receiving stage, where it is contained within the casting (metal component). CORVEX MANUFACTURING machines the metal components to customer specifications. The final product is sent to various customers. CORVEX MANUFACTURING does not create, destroy or change the manganese composition during the machining process. All waste manganese is sent off-site for recycling.

REDUCTION OPTIONS TO BE IMPLEMENTED

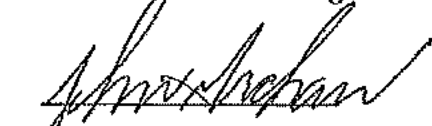
CORVEX MANUFACTURING's commitment to continuous improvement has resulted in a lean and efficient manufacturing facility.

The facility's continuous improvement measures, coupled with the acknowledgment that the customer provides the specifications for the raw materials processed at the site mean that there are no additional options for the facility to implement.

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 28, 2012, I, John Graham, 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 made under the Act.

Toxic Substance: Manganese



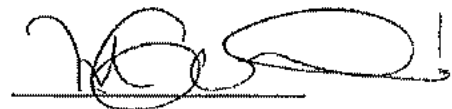
John Graham
General Manager

Corvex Manufacturing

CERTIFICATION BY LICENSED PLANNER

As of December 28, 2012, I, Melissa Gould, certify that I am familiar with the processes at Corvex 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 December 28, 2012 and the plan complies with that Act and Ontario Regulation 455/09 made under the act.

Toxic Substance: Manganese



Melissa Gould

Planner License #TSRP0259 Expiry Date: 9/30/2017

melissa.gould@linamar.com

Facility Information		
Name & CAS # of Substance	Nickel	7440-02-0
Substances for which other plans have been prepared	Manganese	7439-96-5
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STATEMENT OF INTENT

CORVEX MANUFACTURING is committed to playing a leadership role in protecting the environment. Whenever feasible, CORVEX MANUFACTURING will eliminate and reduce the use of NICKEL in full compliance with all Federal and Provincial Regulations.

REDUCTION OBJECTIVES

CORVEX MANUFACTURING prides itself on technical innovation in order to produce high quality automotive components in an environmentally responsible manner.

This plan documents the options available to CORVEX MANUFACTURING to optimize the use of NICKEL at the facility.

The following option(s) has been identified for implementation to reduce the use NICKEL:

- Use scrap parts for machine set-up purposes – it is estimated that this will reduce scrap by recycled by 5-7% and the target implementation is due by end of 2013
- Order less raw material – it is estimated that this will reduced the amount used by 15% and the target implementation is due by end of 2013
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- This facility does not create NICKEL; therefore the plan does not address reducing its creation.

<i>Compound</i>	<i>CAS No.</i>	<i>Amount</i>	<i>Amount</i>	<i>Air Release</i>	<i>Amount</i>	<i>Amount</i>	<i>Amount</i>
		<i>Used</i>	<i>Created</i>	<i>Estimate</i>	<i>Disposed</i>	<i>Transferred</i>	<i>Contained in Product</i>
		<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>	<i>(tonnes/yr)</i>
Nickel	7440-02-0	175.79	NA	NA	NA	36.976	139.84

DESCRIPTION OF SUBSTANCE

NICKEL is a toxic substance which enters the facility at the receiving stage, where it is contained within the casting (metal component). CORVEX MANUFACTURING machines the metal components to customer specifications. The final product is sent to various customers. CORVEX MANUFACTURING does not create, destroy or change the NICKEL composition during the machining process. All waste NICKEL is sent off-site for recycling.

REDUCTION OPTIONS TO BE IMPLEMENTED

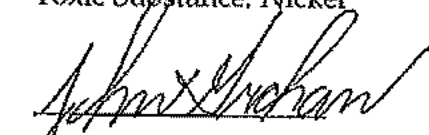
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Toxic Substance: Nickel




John Graham
General Manager

Corvex Manufacturing

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Toxic Substance: Nickel



Melissa Gould

Planner License #TSRP0259 Expiry Date: 9/30/2017

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