# PLAN SUMMARY VEHCOM MANUFACTURING A DIVISION OF LINAMAR HOLDINGS GUELPH, ONTARIO

Name & CAS # of Substance	Manganese	7439-96-5	
Substances for which other	Copper	7440-50-8	
plans have been prepared	Chromium	7440-47-3	
F	acility Identification and Site Ad	dress	
Company Name	Linamar Holdings Inc.		
Facility Name	Vehcom Manufacturing a Division	on of Linamar Holdings Inc.	
	Physical Address:	Mailing Address: (if different)	
Facility Address	74 Campbell Road		
	Guelph, Ontario		
	N1H 1C1		
Spatial Coordination of		ting: 557466.74	
Facility	Nort	hing: 4822105.87	
Number of Employees	400		
NPRI ID	7060		
Ontario MOE ID Number	Ontario MOE ID Number		
Parent Company (PC) Information			
PC Name & Address	Linamar Corporation, 287 Speedvale Avenue West,		
	Guelph, Ontario N1H 1C5		
Percent Ownership for each PC	100%		
Business Number for PC	100	3333662	
Primary North A	nerican Industrial Classification S	System Code (NAICS)	
2 Digit NAICS Code	33 Manufacturing		
4 Digit NAICS Code	3361 - Motor Vehicle Manufacturing		
6 Digit NAICS Code	336110 - Automobile and light-duty motor vehicle manufacturing		
Company Contact Information			
Facility Public Contact	Mr. Thomas Horvat, General Manager		
	Thomas.Horvat@linamar.com		
	Phone: (519) 821-1650	Same address as facility	
	Fax: (519) 821-9774		

#### PLAN SUMMARY STATEMENT

This plan summary reflects the content of the toxic substance reduction plan for Vehcom Manufacturing a Division of Linamar Holdings Inc. for Manganese, prepared by Conestoga-Rovers & Associates.

#### STATEMENT OF INTENT

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

#### **REDUCTION OBJECTIVES**

Vehcom prides itself on technological innovation in order to produce high quality automotive parts in an environmentally responsible manner. Through this plan, Vehcom 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
- Reduce the size and weight of the parts 6F Mid and F150
- 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 Vehcom, 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 Suppliers	January 2013 - Ongoing
2	Implement improvements to inventory	January 2013- Ongoing
	management system	
3	Timeline for implementation of Manganese	End of 2014
	Reductions	

# Reduce the size and weight of the parts 6FMid and F150

The implementation schedule of this option is given below:

Step	Description	Estimated Timelines
1	Product redesign to account for reduction	July-December 2013
2	Product Testing	
3	Redesigned materials begin production	January 2014
4	Timeline for full implementation of Manganese	End of 2014
	Reductions	

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

This option is an on-going procedure at Vehcom, 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	January 2013 - Ongoing
	improvement opportunities	
2	Provide Training Sessions to Operators on	Annually
	handling scrap	
3	Timeline for implementation of Manganese	End of 2014
	Reductions	

Vehcom 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 18, 2012, I, Thomas Horvat, 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

Thomas Horvat

General Manager

Vehcom Manufacturing a Division of Linamar Holdings Inc.

### **CERTIFICATION BY LICENSED PLANNER**

As of December 18, 2012, I, Dana Lauder, certify that I am familiar with the processes at Vehcom 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 April 8, 2016 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Manganese

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Dana Lauder

Conestoga-Rovers & Associates

Planner License #TSRP00014

dlauder@craworld.com

# PLAN SUMMARY

# Vehcom Manufacturing a Division of Linamar Holdings GUELPH, ONTARIO

Name & CAS # of Substance	Copper	7440-50-8
Substances for which other	Chromium	7440-47-3
plans have been prepared	Manganese	7439-96-5
F	acility Identification and Site Ad	dress
Company Name	Linamar Holdings Inc.	
Facility Name	Vehcom Manufacturing a Division	on of Linamar Holdings Inc.
	Physical Address:	Mailing Address: (if different)
Facility Address	74 Campbell Road	
	Guelph, Ontario	
	N1H 1C1	
Spatial Coordination of	Eas	ting: 557466.74
Facility	Nort	hing: 4822105.87
Number of Employees		400
NPRI ID	7060	
Ontario MOE ID Number		
	Parent Company (PC) Informati	on
PC Name & Address	Linamar Corporation, 287 Speedvale Avenue West,	
	Guelph, Ontario N1H 1C5	
Percent Ownership for each PC	100%	
Business Number for PC	103333662	
Primary North Ar	nerican Industrial Classification S	System Code (NAICS)
2 Digit NAICS Code	33 Manufacturing	•
4 Digit NAICS Code	3361 – Motor Vehicle Manufacturing	
6 Digit NAICS Code	336110 - Automobile and light-duty motor vehicle manufacturing	
Company Contact Information		
Facility Public Contact	Mr. Thomas Horvat, General	
	Manager	
	Thomas.Horvat@linamar.com	
	Phone: (519) 821-1650	Same address as facility
	Fax: (519) 821-9774	

# PLAN SUMMARY STATEMENT

This plan summary reflects the content of the toxic substance reduction plan for Vehcom Manufacturing a Division of Linamar Holdings Inc. for Copper, prepared by Conestoga-Rovers & Associates.

# STATEMENT OF INTENT

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

# REDUCTION OBJECTIVES

Vehcom prides itself on technological innovation in order to produce high quality automotive parts in an environmentally responsible manner. Through this plan, Vehcom 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 Copper transferred:

- Work with suppliers to reduce foundry defects received
- Reduce the size and weight of the parts 6F Mid and F150
- 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 Vehcom, 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 Suppliers	January 2013 - Ongoing
2	Implement improvements to inventory	January 2013- Ongoing
	management system	
3	Timeline for implementation of Copper Reductions	End of 2014

# Reduce the size and weight of the parts 6FMid and F150

The implementation schedule of this option is given below:

Step	Description	<b>Estimated Timelines</b>
1	Product redesign to account for reduction	July-December 2013
2	Product Testing	
3	Redesigned materials begin production	January 2014
4	Timeline for full implementation of Copper	End of 2014
	Reductions	

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

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

Step	Description	<b>Estimated Timelines</b>
1	Review scrap procedures and identify	January 2013 - Ongoing
	improvement opportunities	
2	Provide Training Sessions to Operators on	Annually
	handling scrap	
3	Timeline for implementation of Copper Reductions	End of 2014

Vehcom 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 Copper used in the process, and will not create any toxic by-products.

#### CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 18, 2012, I, Thomas Horvat, 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.

Copper

Thomas Horvat

General Manager

Vehcom Manufacturing a Division of Linamar Holdings Inc.

## **CERTIFICATION BY LICENSED PLANNER**

As of December 18, 2012, I, Dana Lauder, certify that I am familiar with the processes at Vehcom 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 April 8, 2016 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Copper

Dana Lauder

Conestoga-Rovers & Associates

Planner License #TSRP00014

dlauder@craworld.com

# PLAN SUMMARY VEHCOM MANUFACTURING A DIVISION OF LINAMAR HOLDINGS GUELPH, ONTARIO

Name & CAS # of Substance	Chromium	7440-47-3
Substances for which other	Copper	7440-50-8
plans have been prepared	Manganese	7439-96-5
I	acility Identification and Site Ad	dress
Company Name	Linamar Holdings Inc.	
Facility Name	Vehcom Manufacturing a Division	on of Linamar Holdings Inc.
	Physical Address:	Mailing Address: (if different)
Facility Address	74 Campbell Road	
	Guelph, Ontario	
	N1H 1C1	
Spatial Coordination of		ting: 557466.74
Facility	Nort	hing: 4822105.87
Number of Employees		400
NPRI ID	7060	
Ontario MOE ID Number		
	Parent Company (PC) Informati	on
PC Name & Address	Linamar Corporation, 287 Speedvale Avenue West,	
	Guelph, Ontario N1H 1C5	
Percent Ownership for each PC	100%	
Business Number for PC	103333662	
Primary North A	merican Industrial Classification S	System Code (NAICS)
2 Digit NAICS Code	33 Manufacturing	
4 Digit NAICS Code	3361 - Motor Vehicle Manufacturing	
6 Digit NAICS Code	336110 - Automobile and light-duty motor vehicle manufacturing	
Company Contact Information		
Facility Public Contact	Mr. Thomas Horvat, General Manager	
	Thomas.Horvat@linamar.com	
	Phone: (519) 821-1650	Same address as facility
	Fax: (519) 821-9774	

### PLAN SUMMARY STATEMENT

This plan summary reflects the content of the toxic substance reduction plan for Vehcom Manufacturing a Division of Linamar Holdings Inc. for Chromium, prepared by Conestoga-Rovers & Associates.

#### STATEMENT OF INTENT

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

#### **REDUCTION OBJECTIVES**

Vehcom prides itself on technological innovation in order to produce high quality automotive parts in an environmentally responsible manner. Through this plan, Vehcom 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 Chromium 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 Vehcom, 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 Suppliers	January 2013 - Ongoing
2	Implement improvements to inventory	January 2013 - Ongoing
	management system	
3	Timeline for implementation of Chromium	End of 2014
	Reductions	

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

This option is an on-going procedure at Vehcom, 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	January 2013 - Ongoing
	improvement opportunities	
2	Provide Training Sessions to Operators on	Annually
	handling scrap	
3	Timeline for implementation of Chromium	End of 2014
	Reductions	

Vehcom 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 Chromium used in the process, and will not create any toxic by-products.

# **CERTIFICATION BY HIGHEST RANKING EMPLOYEE**

As of December 18, 2012, I, Thomas Horvat, 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.

Chromium

Thomas Horvat

General Manager

Vehcom Manufacturing a Division of Linamar Holdings Inc.

#### **CERTIFICATION BY LICENSED PLANNER**

As of December 18, 2012, I, Dana Lauder, certify that I am familiar with the processes at Vehcom 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 April 8, 2016 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Chromium

Dana Lauder

Conestoga-Rovers & Associates

Planner License #TSRP00014

dlauder@craworld.com

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