



# National Pollutant Release Inventory (NPRI) and



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## Report Preview

### Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	01/06/2017 4:02 PM

### Company and Facility Details

Company Name:	Linamar Corp.
Business Number:	103333662
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 287 Speedvale Avenue West City, Province/Territory, Postal Code: Guelph Ontario N1H1C5 Country: Canada
Facility Name:	Eston Manufacturing
NAICS Code:	332710
NPRI ID:	11048
Physical Address:	Address Line 1: 277 Silvercreek Parkway North City, Province/Territory, Postal Code: Guelph Ontario N1H1E6 Country: Canada Latitude: 43.54640 Longitude: -80.28830 UTM Zone: 17 UTM Easting: 557492 UTM Northing: 4821740

### Parent Companies

Company Name:	Linamar Corporation
Business Number:	103333662
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 287 Speedvale Avenue West City, Province/Territory, Postal Code: Guelph Ontario N1H1C5 Country: Canada

### Permits

Number or Permit Number:	C of A # 6029-7
Government Department, Agency, or Program Name:	MOE

### Contacts Details

Contact Type	Technical Contact
Name:	Michael O'Neill
Position:	EHS Coordinator
Telephone:	5197630063
Email:	Michael.O'Neill@Linamar.com
Contact Type	Certifying Official, Highest Ranking Employee
Name:	Greg Kirkup
Position:	General Manager
Telephone:	5197630063
Email:	greg.kirkup@linamar.com
Contact Type	Person who prepared the report
Name:	Jenna Devereaux
Position:	Environmental Specialist
Telephone:	2263260115
Email:	Jenna.Devereaux@Linamar.com
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 545 Elmira Road City, Province/Territory, Postal Code: Guelph Ontario N1K 1C2 Country: Canada

## General Information

Number of employees:	267
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:	None of the above
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Is this the first time the facility is reporting to the NPRI (under current or past ownership):	No
Is the facility controlled by another Canadian company or companies:	Yes
Did the facility report under other environmental regulations or permits:	No
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	No

## Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 06	Copper (and its compounds)	N/A	N/A	N/A	29.8600	tonnes
NA - 14	Zinc (and its compounds)	N/A	N/A	N/A	7.3500	tonnes

## Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
NA - 06	Copper (and its compounds)	Yes	Yes		No
NA - 14	Zinc (and its compounds)	Yes	Yes		No

## General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
NA - 06	Copper (and its compounds)	No	No	No
NA - 14	Zinc (and its compounds)	No	No	No

## General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
NA - 06	Copper (and its compounds)	No	No	Yes
NA - 14	Zinc (and its compounds)	No	No	Yes

## General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 06	Copper (and its compounds)		As a formulation component	
NA - 14	Zinc (and its compounds)		As a formulation component	

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 06	Copper (and its compounds)	Use	282.45 tonnes	No
NA - 06	Copper (and its compounds)	Creation	0 tonnes	No
NA - 06	Copper (and its compounds)	Contained in Product	252.59 tonnes	No
NA - 14	Zinc (and its compounds)	Use	36.20 tonnes	No
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	No
NA - 14	Zinc (and its compounds)	Contained in Product	28.85 tonnes	No

## TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
NA - 06	Copper (and its compounds)					No
NA - 14	Zinc (and its compounds)					No

## On-site Releases - Total

## On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
NA - 06	Copper (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)	No significant change (i.e. < 10%) or no change	

## Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
NA - 06	Copper (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)		No significant change (i.e. < 10%) or no change	

## Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		29.86 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		7.35 tonnes

## Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 06	Copper (and its compounds)	29.86 tonnes
NA - 14	Zinc (and its compounds)	7.35 tonnes

## Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	29.86 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	Gerdau Ameristeel Metals Recycling	200 Dawson Rd., Guelph, ON, Canada	7.35 tonnes

## Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 06	Copper (and its compounds)	Off-specification products Unusable parts or discards Machine or finishing residues	Changes in estimation methods Other (specify in recycling comments field)	Changes in composition of raw material.
NA - 14	Zinc (and its compounds)	Off-specification products Unusable parts or discards Machine or finishing residues	Changes in estimation methods Other (specify in recycling comments field)	Changes in composition of raw material.

## Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 06	Copper (and its compounds)	No	Enters the facility (Use)	282.45 tonnes	251.21 tonnes	2015	31.24	12.44
NA - 06	Copper (and its compounds)	No	Creation	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Contained in Product	252.59 tonnes	210.124 tonnes	2015	42.466	20.21
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	36.20 tonnes	21.87 tonnes	2015	14.33	65.52
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0 tonnes	2015	0	
NA - 14	Zinc (and its compounds)	No	Contained in Product	28.85 tonnes	14.09 tonnes	2015	14.76	104.76

## Comparison Report - Enters, Creation, Contained in Product : Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 06	Copper (and its compounds)	Increase in production levels Change in quantification methodology Other	Changes in composition of raw material.
NA - 14	Zinc (and its compounds)	Increase in production levels Change in quantification methodology Other	Change in composition of raw material.

## Comparison Report - Transfers off-site for Recycling

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 06	Copper (and its compounds)	No	Total off-site Transfers for Recycling	29.86 tonnes	41.08 tonnes	2015	-11.22	-27.31
NA - 14	Zinc (and its compounds)	No	Total off-site Transfers for Recycling	7.35 tonnes	7.77 tonnes	2015	-0.42	-5.41

## Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 06	Copper (and its compounds)	Change in quantification methodology Other	Changes in compositon of raw material.
NA - 14	Zinc (and its compounds)	Change in quantification methodology Other	Changes in composition of raw material.

## Pollution Prevention

Does the facility have a documented pollution prevention plan?

No

Did the facility complete any pollution prevention activities in the current NPRI reporting year

No

## Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 06	Copper (and its compounds)	Eston prides itself on technological innovation in order to produce high quality automotive parts in an environmentally responsible manner. Through this plan, Eston will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - 14	Zinc (and its compounds)	Eston prides itself on technological innovation in order to produce high quality automotive parts in an environmentally responsible manner. Through this plan, Eston will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

## Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 06	Copper (and its compounds)	No quantity target	No timeline target	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 • Implement training practices/procedures amongst machine operators to reduce scrap materials
NA - 14	Zinc (and its compounds)	No quantity target	No timeline target	

## Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 06	Copper (and its compounds)	No quantity target	No timeline target	
NA - 14	Zinc (and its compounds)	No quantity target	No timeline target	

## Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
NA - 06	Copper (and its compounds)	Other	Continued to investigate feedstock options.	Continued to investigate feedstock options.	Same as the TRA plan.	Continued to investigate feedstock options.
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	Continued training employees to reduce the generation of scrap and unusable metal discards.	Continued training employees to reduce the generation of scrap and unusable metal discards.	Same as the TRA plan.	Continued training employees to reduce the generation of scrap and unusable metal discards.
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	Continued training employees to reduce the generation of scrap and unusable metal discards.	Continued training employees to reduce the generation of scrap and unusable metal discards.	Same as the TRA plan.	Continued training employees to reduce the generation of scrap and unusable metal discards.

## Progress on TRA Plan - Reductions due to Options Implemented - Materials or feedstock substitution

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 06	Copper (and its compounds)	Other	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Other	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount

## Progress on TRA Plan - Reductions due to Options Implemented - Good operator practice or training

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 06	Copper (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Training related to toxics substance reduction	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount

## Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
NA - 06	Copper (and its compounds)	No		
NA - 14	Zinc (and its compounds)	No		

## Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 06	Copper (and its compounds)	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 06	Copper (and its compounds)	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	

## Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
NA - 06	Copper (and its compounds)	No		
NA - 14	Zinc (and its compounds)	No		

## Report Submission and Electronic Certification

### NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Linamar Corp.

Certifying Official (or authorized delegate)

Greg Kirkup

Report Submitted by

Greg Kirkup

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

Annual Report Certification Statement

As of 01/06/2017, I, Greg Kirkup, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below 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 that Act.

TRA Substance List

CAS RN	Substance Name
NA - 06	Copper (and its compounds)
NA - 14	Zinc (and its compounds)

Company Name  
Linamar Corp.

Highest Ranking Employee  
Greg Kirkup

Report Submitted by  
Greg Kirkup

Website address

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.

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2016	01/06/2017	Eston Manufacturing	Ontario	Guelph	NPRI, ON MOE TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.11.4



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