

General Dynamic Land Systems Canada – London Facility

Toxic Reduction Public Summary Report

2019 Reporting Year

Facility Information

Company Name	General Dynamics Land Systems – Canada
Facility Name	General Dynamics Land Systems London (GDLS-L)
Facility Physical Address	1991 Oxford Street East, London, Ontario, N5V 2Z7
Facility Mailing Address	Same as Physical Address
Geographical Coordinates of Facility	Zone 17; 485652.69 E, 4762757.48 N Latitude: 43.01930; Longitude: -81.16790
Number of Employees	1250
NPRI ID	10698
6 Digit NAICs Code	336990

Company Business Information

Parent Company	General Dynamics Canadian Holding Inc. 1991 Oxford Street, East, London, Ontario, N5V 2Z7
Percent Ownership	100%

Facility Contact Information

Public Contact	Mark Blesity Manager Security, ER, LR & EHS
Contact Address	1991 Oxford Street East, London, Ontario, N5V 2Z7
Contact Details	Phone: 519-964-5900 ext 6551 Fax: 519-964-5003

Summary Report Details

Reporting Year	2019
Summary Report Date	30 July 2020
TRA Substance - Phase I	Manganese – Does Not Meet Reporting Criteria Toluene – Does Not Meet Reporting Criteria Total Volatile Organics – Does Not Meeting Reporting Criteria
TRA Substance - Phase II	Ethylene Glycol PM ₁₀ PM _{2.5}

TRA Reporting Certification

As of 30 July 2020, I, John Ellison, certify that I have read the reports on the toxic substance reduction plans for the toxic substances identified above and am familiar with their contents and to my knowledge the information contained in the reports is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation O.Reg. 455/09 (General) made under that Act.

Highest Ranking Employee:

Mr. John Ellison
Vice President and General Manager

John Ellison (signature on original)

July 30, 2020

Signature

Date

General Dynamic Land Systems Canada – London Facility

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2019 Reporting Year

TRA Substance: **Ethylene Glycol**
 CAS # 107-21-1

TRA Reporting Phase	II			
TRA Plan Submission Date	16 December 2013			
TRA Public Summary Reporting Date	31 July 2020			
Status of Substance	MPO > 10 tonnes			
Justification of Status	Part 1A NPRI Substance			
Plant Objectives and Targets	For the purpose of the Toxics Reduction Act, GDLS – C – London Facility will not be implementing any options to reduce the use of ethylene glycol in its operations as it is a major component of and a requirement for their final product.			
Accounting and Comparison				
<i>Pathways</i>	2019 Tonnes	2018 Tonnes	Change Tonnes	Change %
U – Enters the Process	>10-100	>10-100	6.403	63.30
C – Created	0	0	0	0
P – In Product that leaves the Process	>10-100	>1-10	6.458	85.39
R – Released	0	0.00002	-0.00002	-100
D – Disposed - Recycled	2.498	2.553	0.055	-2.15
T - Transferred	0	0	0	0
Justification of Changes	<ul style="list-style-type: none"> - U, P – Increase in production use. - R – Product used no longer contains ethylene glycol. - D – No significant change <10%. 			
Progress on Implementation		2019		
Summary of activities taken to implement reduction strategies		None		
Summary of additional activities that impacted the substance accounting and reductions achieved		None		
Summary of differences between the actions of the plan and any additional activities undertaken		None		
Details of any amendments to the TRA Plan		None		

General Dynamic Land Systems Canada – London Facility

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2019 Reporting Year

TRA Substance: **Particulate Matter <= 10 Microns (PM₁₀)**
CAS # NA-M09

TRA Reporting Phase	II			
TRA Plan Submission Date	16 December 2013			
TRA Public Summary Reporting Date	31 July 2020			
Status of Substance	Release Threshold >0.5 tonnes			
Justification of Status	Part 4 NPRI Substance			
Plant Objectives and Targets	For the purpose of the Toxics Reduction Act, GDLS-C – London Facility will not be implementing any options to reduce the creation of particulate matter in its operations because it is a by-product of key reactions within the current manufacturing processes at the site. In the past the facility has implemented multiple programs to prevent and limit discharges. There were no further feasible (technical and economic) reduction options identified.			
Accounting and Comparison				
<i>Pathways</i>	2019 Tonnes	2018 Tonnes	Change Tonnes	Change %
U – Enters the Process	0	0	0	0
C – Created	> 1 - 10	> 1 - 10	0.025	2.06
P – In Product that leaves the Process	0	0	0	0
R – Released	1.238	1.213	0.025	2.06
D – Disposed	N/A			
T - Transferred	N/A			
Justification of Changes	No significant change (<10%), quantities approximately the same.			
Progress on Implementation				
	2019			
Summary of activities taken to implement reduction strategies	None			
Summary of additional activities that impacted the substance accounting and reductions achieved	None			
Summary of differences between the actions of the plan and any additional activities undertaken	None			
Details of any amendments to the TRA Plan	None			

General Dynamic Land Systems Canada – London Facility

Toxic Reduction Public Summary Report

2019 Reporting Year

TRA Substance: **Particulate Matter <= 2.5 Microns (PM_{2.5})**
CAS # NA-M10

TRA Reporting Phase	II			
TRA Plan Submission Date	16 December 2013			
TRA Public Summary Reporting Date	31 July 2020			
Status of Substance	Release Threshold >0.3 tonnes			
Justification of Status	Part 4NPRI Substance			
Plant Objectives and Targets	For the purpose of the Toxics Reduction Act, GDLS-C – London Facility will not be implementing any options to reduce the creation of particulate matter in its operations because it is a by-product of key reactions within the current manufacturing processes at the site. In the past the facility has implemented multiple programs to prevent and limit discharges. There were no further feasible (technical and economic) reduction options identified.			
Accounting and Comparison				
<i>Pathways</i>	2019 Tonnes	2018 Tonnes	Change Tonnes	Change %
U – Enters the Process	0	0	0	0%
C – Created	> 1 - 10	> 1 - 10	0.025	2.09
P – In Product that leaves the Process	0	0	0	0
R – Released	1.222	1.197	0.025	2.09
D – Disposed	N/A			
T - Transferred	N/A			
Justification of Changes	No significant change (<10%), quantities approximately the same.			
Progress on Implementation			2019	
Summary of activities taken to implement reduction strategies			None	
Summary of additional activities that impacted the substance accounting and reductions achieved			None	
Summary of differences between the actions of the plan and any additional activities undertaken			None	
Details of any amendments to the TRA Plan			None	