

General Dynamic Land Systems Canada – London Facility

Toxics Reduction Public Summary Report

2020 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 | 1285 |
| 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 | 2020 |
| Summary Report Date | 22 September 2021 |
| 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 22 September 2021, I, Jason Monahan, certify that I have read the report on the toxic substance reduction plan(s) for the toxic substances identified above and am familiar with their contents and to my knowledge the information contained in the report(s) 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:

Jason A. Monahan
Vice President & General Manager

Jason A. Monahan
(signature on original)

September 22, 2021

Signature

Date

General Dynamic Land Systems Canada – London Facility

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2020 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 | 30 September 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> | 2020 Tonnes | 2019 Tonnes | Change Tonnes | Change % |
| U – Enters the Process | >10-100 | >10-100 | 2.258 | 13.7 |
| C – Created | 0 | 0 | 0 | 0 |
| P – In Product that leaves the Process | >10-100 | >10-100 | 2.190 | 15.6 |
| R – Released | 0 | 0 | 0 | 0 |
| D – Disposed - Recycled | 2.566 | 2.498 | 0.068 | 2.7 |
| T - Transferred | 0 | 0 | 0 | 0 |
| Justification of Changes | - Increase in production use | | | |
| Progress on Implementation | | 2020 | | |
| 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

Toxics Reduction Public Summary Report

2020 Reporting Year

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

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|---|---|----------------|------------------|-------------|
| TRA Reporting Phase | II | | | |
| TRA Plan Submission Date | 16 December 2013 | | | |
| TRA Public Summary Reporting Date | 30 September 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> | 2020 Tonnes | 2019 Tonnes | Change Tonnes | Change % |
| U – Enters the Process | 0 | 0 | 0 | 0 |
| C – Created | > 1 - 10 | > 1 - 10 | -0.095 | -7.7 |
| P – In Product that leaves the Process | 0 | 0 | 0 | 0 |
| R – Released | 1.143 | 1.238 | -0.095 | -7.7 |
| D – Disposed | N/A | | | |
| T - Transferred | N/A | | | |
| Justification of Changes | No significant change (<10%) | | | |
| Progress on Implementation | | | | |
| | 2020 | | | |
| 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

Toxics Reduction Public Summary Report

2020 Reporting Year

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

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|---|---|----------------|------------------|-------------|
| TRA Reporting Phase | II | | | |
| TRA Plan Submission Date | 16 December 2013 | | | |
| TRA Public Summary Reporting Date | 30 September 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> | 2020 Tonnes | 2019 Tonnes | Change Tonnes | Change % |
| U – Enters the Process | 0 | 0 | 0 | 0% |
| C – Created | > 1 - 10 | > 1 - 10 | -0.096 | -7.9 |
| P – In Product that leaves the Process | 0 | 0 | 0 | 0 |
| R – Released | 1.126 | 1.222 | -0.096 | -7.9 |
| D – Disposed | N/A | | | |
| T - Transferred | N/A | | | |
| Justification of Changes | No significant change (<10%) | | | |
| Progress on Implementation | | | 2020 | |
| 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 | |