

2017 Annual Public Report Toxic Substance Reduction Act Mauser Canada Ltd.

1.0 Basic Facility Information

General Information			
The legal and trade names of the owner and the operator of the facility, the street address of the facility and if the mailing address of the facility is different from the street address, the mailing address. (See below)	Mauser Canada Ltd. 1121 Pioneer Road Burlington, Ontario L7M 1K5		
Facility NPRI identification number	10568		
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01	9142		
Number of full-time employee equivalents	54		
North American Industry Clarification System (NAICS) 2, 4, and 6 digit codes	33	3324	332439
Spatial Coordinates	Lat 43.36250 Lon -79.79910 UTM 597306E 4801771N		

Contact Information			
Role	Name	Position	Contact information
Public contact	Dan Dragoman	Manager	(905) 332-2377 Dan.dragoman@mausergroup.com
Highest Ranking Employee	Dan Dragoman	Manager	(905) 332-2377 Dan.dragoman@mausergroup.com
Certifying Official	Dan Dragoman	Manager	(905) 332-2377 Dan.dragoman@mausergroup.com
Certifying Planner	Ron Taylor	License # TSRP0027	905-793-9809 ex 2284 ron.taylor@exp.com
Legal name of Canadian parent company if facility is a subsidiary of a Canadian parent company			N.A.

List of Toxic Substances	
Substance	CAS Number
NA - 04	Chromium (and its compounds)
NA - 09	Manganese (and its compounds)
NA - M16	Volatile Organic Compounds (VOCs)
1330-20-7	Xylene (all isomers)
67-64-1	Acetone
78-93-3	Methyl ethyl ketone
100-41-4	Ethylbenzene
108-88-3	Toluene
108-65-6	Propylene glycol methyl ether acetate

List of Toxic Substances	
111-76-2	2-Butoxyethanol
95-36-6	1,2,4-Trimethylbenzene
64-17-5	Ethanol
64742-94-5	Heavy aromatic solvent naphtha
64742-95-6	Light aromatic solvent naphtha

2.0 Facility's Intent and Objectives

Mauser Canada Ltd. intends to reduce its use of volatile organic compounds (VOCs), methyl ethyl ketone, 1,2,4-trimethylbenzene, toluene, xylene, ethyl benzene, and heavy solvent naphtha acetate by substituting the current paint with paint containing a lower content of volatile organic compounds (VOCs) where customer specifications can be met and product quality can be maintained.

Mauser Canada Ltd does not intend to reduce its use of 2-butoxyethanol, ethanol, light solvent naphtha, and propylene glycol methyl ether acetate, which are not currently reportable, as they will be constituents of the low VOC paints/liners in concentration greater than in old (high VOC) paint/liners. In these circumstances because of significant reduction in total VOC emission and especially to the reduction of more toxic substances, substitution of high VOC paints/liner with low VOC paints/liners is deemed to be a feasible option.

Mauser Canada Ltd. does not intend to implement options to reduce chromium and manganese since it is required to meet client specifications and to maintain the quality and safety of the product in accordance with international transportation and storage standards. Mauser Canada Ltd. intends to continue to minimize its use of chromium and manganese through a comprehensive scrap reduction program and manufacture products in the most responsible and efficient way possible.

3.0 Implementation Options

To meet the objective of reducing the use of: volatile organic compounds (VOCs), methyl ethyl ketone, 1,2,4-Trimethylbenzene, toluene, xylene, heavy solvent naphtha, ethyl benzene, and acetone; Mauser Canada Ltd. has been engaged in a comprehensive program to determine the feasibility and acceptability of substituting current coatings with low VOC paints/liners. Based on the program it has set a target to reduce the use of the above substances by 10% in the first year (2013), a further 10% second year (2014) and further 5% third year (2015).

Mauser Canada Ltd. intends to reduce the use of 1,2,4-Trimethylbenzene, toluene, xylene, and methyl ethyl ketone once the introduction of new low VOC paints/liners is fully implemented, as they will be present in reduced concentrations in the low VOC paints/liners.

Mauser Canada Ltd does not intend to reduce its use of 2-Butoxyethanol, ethanol, light solvent naphtha and propylene glycol methyl ether acetate as they will be used to substitute for the more volatile or toxic substances noted above.

Mauser Canada Ltd. recognizes end of pipe technology does not reduce the use of toxic substances, however, such technology is the most feasible and effective option to reduce emissions of VOCs to the atmosphere and is committed to achieving additional significant reductions in emissions to air for all VOCs with the use of new end of pipe technology. Mauser has installed a regenerative thermal oxidizer (RTO) to control emissions from painting processes.

To meet the objective of minimizing the use of chromium and manganese, Mauser Canada will continue to monitor and maintain its current target for controllable scrap reduction within its scrap reduction program.

4.0 Facility's progress in reducing toxic substances

Table 1 provides TRA quantifications, progress and comparison between the current reporting period (2017) and the most recent reporting year (2016). The method used was a mass balance approach based on purchase records and emission factors. There was no change in the tracking and quantification methodology used.

Table 1: Comparison Report – MPO, Emissions and Recycling Quantification – 2017 vs 2016

Substance	2017			2016			Change* 2017 vs 2016			% Change* 2017 vs 2016		
	MPO	E	R	MPO	E	R	MPO	E	R	MPO	E	R
VOC	130	8.9	3.4	128	8.7	3.47	2.20	0.16	-0.04	1.7	1.8	-1.2
Methyl ethyl ketone	29.9	2.04	0.79	30.2	2.05	0.82	-0.30	-0.01	-0.03	-1.0	-0.5	-3.7
1,2,4-Trimethylbenzene ¹	2.43	0.17	0.07	2.33	0.16	0.06	0.10	0.01	0.01	4.3	3.1	11.1
Toluene ¹	7.94	0.54	0.21	7.73	0.53	0.21	0.21	0.01	0.00	2.7	1.9	0.0
2-butoxyethanol ¹	9.59	0.65	0.26	8.53	0.58	0.23	1.06	0.07	0.03	12.4	12.1	13.0
Xylene	15.8	1.08	0.42	16.2	1.1	0.44	-0.40	-0.02	-0.02	-2.5	-1.8	-4.5
Ethanol ¹	0.28	0.02	0.01	0.57	0.04	0.01	-0.29	-0.02	-0.01	-50.9	-50.0	-50.0
heavy solvent naphtha ¹	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
light solvent naphtha ¹	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
propylene glycol methyl ether acetate ¹	7.36	0.50	0.20	7.59	5.13	0.15	-0.23	-4.63	0.05	-3.0	-90.3	32.6
Ethylbenzene ¹	2.88	0.20	0.08	2.94	0.20	0.08	-0.06	0.00	0.00	-2.0	0.0	0.0
Acetone ¹	2.66	0.18	0.07	2.26	0.15	0.06	0.40	0.03	0.01	17.7	20.0	16.7
Chromium	189	0.06	15.9	179	0.06	16.2	10.0	0.0	-0.28	5.6	1.6	-1.7
Manganese	283	0.03	23.9	269	0.03	24.3	14.5	0.0	-0.42	5.4	1.6	-1.7

* Change = (annual Amounts - base year Amounts)

MPO: Manufactured, processed, or otherwise used

E: Emissions

R: Recycled

1 – Substances are included in Plan Summary but no longer meet NPRI / TRA reporting threshold

5.0 Progress of Plan Implementation

An assessment of the facility's progress in implementing its plan is the final requirement that must be reported to the public. This section must indicate whether the facility has achieved any of its plan objectives.

As per the TRA Plan, Mauser plans to reduce the use of: volatile organic compounds (VOCs), methyl ethyl ketone, 1,2,4-Trimethylbenzene, toluene, xylene, heavy solvent naphtha, and ethylbenzene. Mauser has evaluated the use of lower VOC paints and solvents and have implemented lower VOC paints where they meet client specifications. The installation and operation of the RTO, although outside the scope of the TRA Plan, has greatly reduced emissions to atmosphere.

6.0 Certification

Electronic certification statement provided below, as submitted through the Environment Canada Single Window Information Manager system.



ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 28/05/2018, I, Dan Dragoman, 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 - 04	Chromium (and its compounds)
NA - 09	Manganese (and its compounds)
78-93-3	Methyl ethyl ketone
1330-20-7	Xylene (all isomers)

Company Name

Mauser Canada Ltd.

Highest Ranking Employee

Dan Dragoman

Report Submitted by

Dan Dragoman

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.