



2017 Annual Public Report Under O. Reg. 455/09

Honda of Canada Manufacturing

Alliston, Ontario

May 22, 2018



Honda of Canada Mfg. Facility Data

Facility NPR ID	397
O. Reg. 127/01 ID	6172
Facility Owner/Operator	Honda of Canada Mfg. 4700 Industrial Rd. P.O. Box 5000 Alliston, Ontario L9R 1A2
Full Time Employees	4300
NAICS Code	3361
NAICs Canada Code	336110
Facility Public Contact	Michael Broeckel Facilities Department/Environmental Group (705) 435-5561 ext 2391
Highest Ranking Employee	Kensuke Oe President (705) 435-5561
Facility UTM Coordinates	44.1470,-79.847
Canadian Parent Company	Honda Canada Inc. 180 Honda Blvd. Markham, Ontario L6C 0H9

Accounting information for all substances meeting the reporting threshold for the 2017 Calendar Year is as follows.



Name (CAS RN)	Ethylbenzene (100-41-4)	Ethylene glycol (107-21-1)	Methyl isobutyl ketone (108-10-1)	Propylene glycol monomethyl ether acetate (108-65-6)	Toluene (108-88-3)
Enters Process	100-1000	>1000	1-10	10-100	1-10
Change from 2016	0.214	183.647	-0.112	-2.993	-1.675
% Change	0.2	11.6	-1.3	-5.4	-16.4
Reason	N/A	Production increase	N/A	N/A	Variation in paint formulations
Created	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Contained in Product	0	>1000	0	0	0
Change from 2016	0	183.876	0	0	0
% Change	0	11.6	0	0	0
Reason	N/A	Production increase	N/A	N/A	N/A
Released	42.530	0.077	4.732	43.990	6.252
Change from 2016	-3.447	-0.001	-0.382	-2.795	-2.587
% Change	-7.5	-1.1	-7.5	-6.0	-29.3
Disposed	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Transferred	83.410	2.437	0.568	5.157	1.403
Change from 2016	3.997	-0.231	0.189	0.914	0.918
% Change	5.0	-8.7	50.0	21.5	189.3
Reason (Release/ Dispose/Transfer)	N/A	N/A	Spent purge solvent composition change	Spent purge solvent composition change	Updated disposition of waste cleaning product
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				

All units in metric tonnes

Accounting information for all substances meeting the reporting threshold for the 2017 Calendar Year (continued).



Name (CAS RN)	2-butoxy ethanol (111-76-2)	Ethylene glycol butyl ether acetate (112-07-2)	Diethylene glycol hexyl ether (112-15-2)	Diethylene glycol butyl ether (112-34-5)	N-Butyl acetate (123-86-4)
Enters Process	10-100	10-100	10-100	1-10	10-100
Change from 2016	7.540	1.512	1.072	1.232	-2.714
% Change	15.3	9.6	5.2	33.2	-2.9
Reason	Increased water borne purge use	N/A	N/A	Increased cleaner use	N/A
Created	1-10	0	0	10-100	0
Change from 2016	0.193	0	0	5.372	0
% Change	2.1	0	0	7.1	0
Reason	N/A	N/A	N/A	N/A	N/A
Contained in Product	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	35.156	10.960	15.243	8.328	63.308
Change from 2016	22.486	-0.227	0.367	3.074	-7.746
% Change	177.5	-2.0	2.5	58.5	-10.9
Disposed	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Transferred	2.107	2.561	1.516	0.635	18.789
Change from 2016	-15.569	1.934	0.628	0.372	7.634
% Change	-88.1	308.4	70.7	141.3	68.4
Reason (Release/ Dispose/Transfer)	Updated disposition of water borne purge	Spent purge solvent composition change	Spent purge solvent composition change	Spent purge solvent composition change	Spent purge solvent composition change
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				



Accounting information for all substances meeting the reporting threshold for the 2017 Calendar (continued).

Name (CAS RN)	Xylene (1330-20-7)	Ethyl acetate (141-78-6)	Formaldehyde (50-00-0)	Propylene glycol butyl ether (5131-66-8)	Hydrotreated light distillate (64742-47-8)
Enters Process	100-1000	10-100	1-10	10-100	1-10
Change from 2016	-12.034	1.961	-0.321	-10.345	3.109
% Change	-1.5	4.1	-21.4	-31.3	49.1
Reason	N/A	N/A	Variation in paint formulations	Variation in paint formulations	Processing material change
Created	0	0	<1	<1	0
Change from 2016	0	0	-0.036	0.011	0
% Change	0	0	-8.9	2.0	0
Reason	N/A	N/A	N/A	N/A	N/A
Contained in Product	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	239.793	22.750	1.247	12.530	5.928
Change from 2016	-27.310	-0.215	-0.245	-6.584	-0.595
% Change	-10.2	-0.9	-16.4	-35.4	-9.1
Disposed	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	517.368	23.828	0.020	0.282	0.243
Change from 2016	19.381	2.565	-.046	-0.875	0.156
% Change	3.9	12.1	-69.7	-75.6	178.0
Reason (Release/Dispose/Transfer)	Variation in paint formulations	Spent purge solvent composition change	Spent purge solvent composition change	Spent purge solvent composition change	Material and equipment change
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				



Accounting information for all substances meeting the reporting threshold for the 2017 Calendar Year (continued).

Name (CAS RN)	Hydrotreated heavy naphtha (64742-48-9)	Solvent naphtha medium aliphatic (64742-88-7)	Heavy aromatic solvent naphtha (64742-94-5)	Light aromatic solvent naphtha (64742-95-6)	Methanol (67-56-1)
Enters Process	10-100	1-10	10-100	100-1000	100-1000
Change from 2016	0.729	-2.335	3.747	17.148	-7.885
% Change	1.5	-42.2	11.6	16.9	-7.3
Reason	N/A	Product substitution	Variation in paint formulations	Production increase	N/A
Created	0	0	0	0	1-10
Change from 2016	0	0	0	0	0.187
% Change	0	0	0	0	2.1
Reason	N/A	N/A	N/A	N/A	N/A
Contained in Product	0	0	0	0	10-100
Change from 2016	0	0	0	0	-11.352
% Change	0	0	0	0	-12.3
Reason	N/A	N/A	N/A	N/A	Inventory adjustment
Released	11.907	2.893	25.048	77.630	8.385
Change from 2016	-0.111	-2.266	1.941	4.501	-1.069
% Change	-0.9	-43.9	8.4	6.2	-11.3
Disposed	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	0.745	0.268	3.213	19.960	9.625
Change from 2016	-1.176	0.066	1.495	13.644	4.423
% Change	-61.2	32.6	87.0	216.0	85.0
Reason (Release/Dispose/Transfer)	Spent purge solvent composition change	Material and equipment change	Spent purge solvent composition change	Spent purge solvent composition change	Increase in recovered purge solvent
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				

Accounting information for all substances meeting the reporting threshold for the 2017 Calendar Year (continued).

Name (CAS RN)	Isopropyl alcohol (67-63-0)	n-Butyl alcohol (71-36-3)	Sodium nitrite (7632-00-0)	Hydrochloric Acid (7647-01-0)	Nitric Acid (7697-37-2)
Enters Process	10-100	10-100	10-100	10-100	10-100
Change from 2016	11.316	9.095	1.017	4.885	-9.554
% Change	63.3	15.9	4.1	40.4	-33.5
Reason	New paint system cleaning process	Variation in paint formulations	N/A	Inventory timing	Normal variation in cleaning materials
Created	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Contained in Product	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	26.329	42.282	0	0	0
Change from 2016	10.064	1.333	0	0	0
% Change	61.9	3.3	N/A	N/A	N/A
Disposed	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	1.307	11.043	0	0	0
Change from 2016	1.077	8.370	0	0	0
% Change	468.3	313.2	N/A	N/A	N/A
Reason (Release/Dispose/Transfer)	New paint system cleaning process	Spent purge solvent composition change			
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				



Accounting information for all substances meeting the reporting threshold for the 2017 Calendar Year (continued).

Name (CAS RN)	Isobutanol (78-83-1)	Methyl ethyl ketone (78-93-3)	VM&P naphtha (8032-32-4)	Stoddard solvent (8052-41-3)	1,2,4-Trimethyl benzene (95-63-6)
Enters Process	10-100	10-100	1-10	1-10	10-100
Change from 2016	1.769	3.305	-0.268	-0.964	10.924
% Change	9.1	22.2	-8.3	-21.6	19.6
Reason	N/A	Increase in plastics painting purge use	N/A	Material and equipment change	Production increase, formulation variation
Created	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Contained in Product	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	13.923	3.896	1.594	3.106	43.493
Change from 2016	-0.051	-2.755	-0.745	-1.112	3.840
% Change	-0.4	-41.4	-31.85	-26.4	9.7
Disposed	0	0	0	0	0
Change from 2016	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	2.735	14.314	0.104	0.1330	10.482
Change from 2016	1.932	6.061	-0.068	0.191	7.205
% Change	240.6	73.4	-39.4	137.7	219.9
Reason (Release/Dispose/Transfer)	Spent purge solvent composition change	More plastics painting purge recovered	Product composition change	Material and equipment change	Production increase, spent purge solvent composition
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				



Accounting information for all substances meeting the reporting threshold for the 2017 Calendar Year (continued).

Name (CAS RN)	Trimethyl benzene isomers (exclude 95-63-6)	Heptane Isomers (**)	Nitrate Ion (**)	Total Phosphorus (**)	Zinc (**)
Enters Process	10-100	10-100	0	10-100	>1000
Change from 2016	1.397	4.315	0	4.341	62.764
% Change	10.0	52.2	0	15.2	2.5
Reason	Production increase, formulation variation	Paint formulation variation	N/A	Production increase	N/A
Created	0	0	10-100	0	0
Change from 2016	0	0	-1.446	0	0
% Change	0	0	-6.6	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Contained in Product	0	0	0	1-10	>1000
Change from 2016	0	0	0	-2.053	76.161
% Change	0	0	0	-24.9	3.1
Reason	N/A	N/A	N/A	Calculation method has large inherent error	N/A
Released	10.243	9.061	0	0	0.543
Change from 2016	0.057	3.043	0	0	-0.031
% Change	0.6	50.6	N/A	N/A	-5.4
Disposed	0	0	20.296	0.152	0.414
Change from 2016	0	0	-1.571	0.058	0.293
% Change	N/A	N/A	-7.2	61.7	242.5
Transferred	2.259	0.847	0.125	26.593	22.453
Change from 2016	1.523	0.432	0.125	6.335	-13.331
% Change	206.9	103.9	100	31.3	-37.3
Reason (Release/ Dispose/Transfer)	Spent purge solvent composition change	Spent purge solvent composition change	Detected in waste	Calculation method has large inherent error	Calculation method has large inherent error
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				

Accounting information for all substances meeting the reporting threshold for the 2017 Calendar Year (continued)

Name (CAS RN)	Nitrogen oxides (as NO ₂) (**)	PM ₁₀ (PM ≤ 10 microns) (**)	PM _{2.5} (PM ≤ 2.5 microns) (**)	Carbon monoxide (630-08-0)	
Enters Process	0	0	0	0	
Change from 2016	0	0	0	0	
% Change	0	0	0	0	
Reason	N/A	N/A	N/A	N/A	
Created	10-100	10-100	10-100	10-100	
Change from 2016	4.330	-0.318	-0.257	3.881	
% Change	9.1	-3.5	-3.6	10.2	
Reason	N/A	N/A	N/A	Updated estimation method	
Contained in Product	0	0	0	0	
Change from 2016	0	0	0	0	
% Change	0	0	0	0	
Reason	N/A	N/A	N/A	N/A	
Released	52.008	8.844	6.935	42.052	
Change from 2016	4.330	-0.318	-0.256	3.881	
% Change	9.1	-3.5	-3.6	10.2	
Disposed	0	0	0	0	
Change from 2016	0	0	0	0	
% Change	0	0	0	0	
Transferred	0	0	0	0	
Change from 2016	0	0	0	0	
% Change	0	0	0	0	
Reason (Release/ Dispose/Transfer)	N/A	N/A	N/A	Updated estimation method	
Notes	There were no plan objectives set. Refer to Plan Summaries for details. There were no significant process changes or calculation method changes in 2016. All values are in tonnes. Reason for change is documented if change is >10%.				

How is Honda of Canada Mfg. reducing our environmental impact?

Utilizing the ISO14001 Environmental Management System, Honda of Canada Mfg. sets targets or implements activities to improve our performance with respect to energy conservation, greenhouse gas emissions, volatile organic compounds (VOC) emissions, and waste generation.

Some examples of initiatives of positive environmental initiatives in 2017 are:

Raw Material Consumption

- New applicator for wax to reduce consumption
- Replaced paint line cleaner in one paint department with inorganic cleaner
- Changed paint purge process to reduce purge solvent consumption

Energy

- Implemented energy audit program to identify low cost/no cost conservation opportunities
- Added variable frequency drives to some chilled water systems to improve efficiency
- Continued program to reduce electricity consumption and mercury in the plant by replacing lighting with LED

VOC

- Finalized technology image for new paint shop replacing 30 year old paint line
- Investment in new paint robots and guns in two other paint shops



Certification Statement

As of May 22, 2018, I certify that I have read the reports on the toxic substance reduction plans for the substances listed above 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 the Act.

signature on file

Kensuke Oe, President,
Honda of Canada Mfg.