



2016 Annual Public Report Under O. Reg. 455/09

Honda of Canada Manufacturing

Alliston, Ontario

May 31, 2017



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	4200
NAICS Code	3361
NAICs Canada Code	336110
Facility Public Contact	Maureen Ramsay Facilities Department/Environmental Group (705) 435-5561 ext 2394
Highest Ranking Employee	Tsutomu Morimoto 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 2016 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	10-100
Change from 2015	6.703	112.414	0.127	14.526	-0.687
% Change	5.4	7.6	1.5	35.2	-6.3
Reason	N/A	N/A	N/A	Formulation change, production increase	N/A
Created	0	0	0	0	0
Change from 2015	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 2015	0	113.361	0	0	0
% Change	0	7.7	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	45.977	0.078	5.114	46.786	8.839
Change from 2015	11.296	0.019	-0.039	12.275	-0.633
% Change	32.6	32.6	-0.8	35.6	-6.7
Disposed	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	0	0	0	0	0
Transferred	79.414	2.667	0.379	4.244	0.485
Change from 2015	-5.434	-0.966	0.073	2.082	0.065
% Change	-6.4	-26.6	23.8	96.3	15.6
Reason (Release/ Dispose/Transfer)	Spent purge solvent distribution change, less purge solvent recovered	Waste accounting accuracy up; process change	Spent purge solvent distribution change	Formulation change, spent purge solvent distribution change	Spent purge solvent distribution 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%.				

All units in metric tonnes

Accounting information for all substances meeting the reporting threshold for the 2016 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 2015	-3.836	0.227	2.377	-3.779	17.372
% Change	-7.2	1.5	13.0	-50.5	22.4
Reason		N/A	Production increase	Processing chemical substitution	Production increase, product variation
Created	1-10	0	0	10-100	0
Change from 2015	0.194	0	0	-0.040	0
% Change	15.2	0	0	-0.1	0
Reason	Production increase	N/A	N/A	N/A	N/A
Contained in Product	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	12.688	11.187	14.875	5.255	71.058
Change from 2015	-0.760	0.217	2.191	-4.032	12.533
% Change	-5.7	2.0	17.3	-43.4	21.4
Disposed	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	0	0	0	0	0
Transferred	17.671	0.627	0.888	0.263	11.155
Change from 2015	-0.777	-0.080	0.081	0.122	2.333
% Change	-5.8	-11.3	10.0	87.0	26.4
Reason (Release/Dispose/Transfer)	N/A	Spent purge solvent distribution change	Product increase	Increased concentration in spent purge solvent	Production increase, product variation
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 2016 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 2015	30.203	4.997	0.176	2.793	2.941
% Change	3.9	11.6	13.2	9.2	86.6
Reason	N/A	N/A	Production increase	Product mix variation	Processing material change
Created	0	0	<1	<1	0
Change from 2015	0	0	0.023	0.074	0
% Change	0	0	6.0	15.3	0
Reason	N/A	N/A	N/A	Production increase	N/A
Contained in Product	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	267.104	22.965	1.492	19.384	6.523
Change from 2015	62.646	5.038	0.1047	2.379	3.154
% Change	30.6	28.1	10.9	14.0	93.6
Disposed	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	497.987	21.263	0.069	1.158	0.087
Change from 2015	-34.326	-0.738	0.001	-0.583	0.062
% Change	-6.4	-3.4	1.7	-33.5	245.8
Reason (Release/ Dispose/Transfer)	Production increase, less collected in waste solvent	Increased production, less collected in waste solvent	Spent purge solvent distribution change	Spent purge solvent distribution change	Processing material 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 2016 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 2015	-5.752	-1.567	-2.304	10.754	26.229
% Change	-10.6	-22.1	-6.7	11.6	32.0
Reason	Production increase	Product substitution	N/A	Production increase	Production increase
Created	0	0	0	0	1-10
Change from 2015	0	0	0	0	1.156
% Change	0	0	0	0	15.2
Reason	N/A	N/A	N/A	N/A	Production increase
Contained in Product	0	0	0	0	10-100
Change from 2015	0	0	0	0	26.847
% Change	0	0	0	0	41.1
Reason	N/A	N/A	N/A	N/A	Production increase
Released	12.018	5.158	23.107	73.128	9.454
Change from 2015	-0.280	-1.616	-1.664	6.381	1.297
% Change	-2.3	-23.8	-6.7	9.6	15.9
Disposed	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	0.745	0.202	1.719	6.316	5.202
Change from 2015	-1.176	-0.020	0.124	1.180	-2.124
% Change	-61.2	-9.2	7.7	23.0	-29.0
Reason (Release/ Dispose/Transfer)	Spent purge solvent distribution change	Product substitution	N/A	Spent purge solvent distribution change	Less purge recycled
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 2016 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 2015	-0.964	6.298	1.180	-4.607	8.613
% Change	-5.1	12.4	5.0	-27.6	43.2
Reason	N/A	Production increase	N/A	Product change	Timing of maintenance activity
Created	0	0	0	0	0
Change from 2015	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 2015	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	16.116	40.949	0	0	0
Change from 2015	-0.149	4.590	0	0	0
% Change	-0.9	12.6	N/A	N/A	N/A
Disposed	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	0.230	2.673	0	0	0
Change from 2015	-0.833	0.201	0	0	0
% Change	-78.4	8.1	N/A	N/A	N/A
Reason (Release/ Dispose/Transfer)	Reviewed emissions of rag waste	Production increase			
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 2016 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)	N-Methyl-2-pyrrolidone (872-50-4)
Enters Process	10-100	10-100	1-10	1-10	10-100
Change from 2015	5.394	-1.826	-0.374	0.465	2.184
% Change	38.2	-10.9	-10.3	11.6	21.3
Reason	Production increase, paint formulation changes	Reduction in plastics painting purge use	Normal production mix variation	New products	More paint line stripper used; formulation change
Created	0	0	0	0	0
Change from 2015	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 2015	0	0	0	0	0
% Change	0	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	13.974	6.651	2.339	4.218	4.961
Change from 2015	3.717	0.717	-0.436	0.333	0.411
% Change	36.2	12.1	-15.7	8.6	9.0
Disposed	0	0	0	0	0
Change from 2015	0	0	0	0	0
% Change	N/A	N/A	N/A	N/A	N/A
Transferred	0.803	8.253	0.104	0.139	6.287
Change from 2015	0.168	-2.473	-0.068	0.084	1.575
% Change	26.4	-23.1	-39.4	152.7	33.4
Reason (Release/ Dispose/Transfer)	Production increase, paint formulation changes	Less purge used and recovered	Spent purge solvent distribution change	New product	More paint line stripper used
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 2016 Calendar Year (continued).

Name (CAS RN)	1,2,4-Trimethyl benzene (95-63-6)	Trimethyl benzene isomers (exclude 95-63-6)	Heptane Isomers (**)	Nitrate Ion (**)	Total Phosphorus (**)
Enters Process	10-100	10-100	1-10	0	10-100
Change from 2015	7.128	2.055	-1.221	0	3.229
% Change	14.7	17.2	-12.9	0	12.7
Reason	Production increase, formulation variation	Production increase, formulation variation	Normal production variation	N/A	Production increase
Created	0	0	0	10-100	0
Change from 2015	0	0	0	-17.240	0
% Change	0	0	0	-44.1	0
Reason	N/A	N/A	N/A	Product substitution	N/A
Contained in Product	0	0	0	0	1-10
Change from 2015	0	0	0	0	4.205
% Change	0	0	0	0	104.5
Reason	N/A	N/A	N/A	N/A	Calculation method has large inherent error
Released	39.653	10.186	6.018	0	0
Change from 2015	4.8715	1.428	-1.029	0	0
% Change	13.5	16.3	-14.6	N/A	N/A
Disposed	0	0	0	21.867	0.094
Change from 2015	0	0	0	-16.792	0.011
% Change	N/A	N/A	N/A	-43.4	13.3
Transferred	3.277	0.736	0.416	0	20.258
Change from 2015	0.726	0.229	-0.028	-0.073	-0.986
% Change	28.5	46.3	-6.3	N/A	-4.6
Reason (Release/ Dispose/Transfer)	Production increase, formulation variation	Spent purge solvent distribution change	Normal production variation	Product substitution, not detected in waste	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 2016 Calendar Year (continued)

Name (CAS RN)	Zinc (**)	Nitrogen oxides (as NO2) (**)	PM10 (PM <= 10 microns) (**)	PM2.5 (PM <=2.5 microns) (**)	Carbon monoxide (630-08-0)
Enters Process	>1000	0	0	0	0
Change from 2015	111.325	0	0	0	0
% Change	4.7	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Created	0	10-100	1-10	1-10	10-100
Change from 2015	0	-4.171	1.828	1.908	-3.548
% Change	0	-8.0	24.9	36.1	-8.5
Reason	N/A	N/A	Reviewed control efficiencies used in calc'ns	Reviewed control efficiencies used in calc'ns	N/A
Contained in Product	>1000	0	0	0	0
Change from 2015	96.300	0	0	0	0
% Change	4.1	0	0	0	0
Reason	N/A	N/A	N/A	N/A	N/A
Released	0.574	47.678	9.162	7.192	38.171
Change from 2015	0.043	-4.171	1.828	1.908	-3.548
% Change	8.1	-8.0	11.3	36.1	-8.5
Disposed	0.121	0	0	0	0
Change from 2015	0.039	0	0	0	0
% Change	48.2	0	0	0	0
Transferred	35.784	0	0	0	0
Change from 2015	14.932	0	0	0	0
% Change	71.6	0	0	0	0
Reason (Release/ Dispose/Transfer)	Production increase, timing of shipments		Reviewed control efficiencies used in calc'ns	Reviewed control efficiencies used in calc'ns	
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 2016 are:

Raw Material Consumption

- HCM was awarded the inaugural Honda Motors Green Conference Environmental Award for a project to reduce the amount of scrap metal from the Stamping department by processing large and small parts together
- HCM completed conversion of North American destination vehicles from R-134A air conditioning fluid to low global warming potential product HFO-1234yf
- Both paint departments have completed innovation of the sealer application systems to reduce material consumption and waste

Energy

- HCM continued its program to replace hot water boilers with state of the art energy efficient models
- Variable frequency drives were added to some ventilation systems to improve efficiency
- HCM continued its program to reduce electricity consumption and mercury in the plant by replacing lights with LED

VOC

- New robots and paint guns were installed in part of the bumper painting operation



Certification Statement

As of May 31, 2017, 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

Tsutomu Morimoto, President,
Honda of Canada Mfg.