Product Environmental Aspects Declaration



EP and IJ printer (PCR-ID:AD-04)

No. AD-15-E572 Date of publication Apr./16/2015



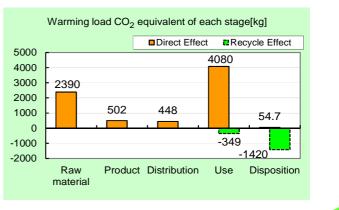
SAVIN Pro C7100SX Pro80

 Printing Process : Electrophotographic (EP) Printing
Color : Monochrome and Full-color
Print Speed : 80 prints/minute (LTR)
Maximum Paper Size : 13" x 49" (bypass tray or LCIT)
Included Units in Assessment : Automatic Reversing Document Feeder, Automatic Duplexing Unit

The warming load of the Use stage is based on the supposition that the product prints 3,840,000 images for five years.

Consumption and discharge in a	All the stage sum
life cycle	totals
Global Warming (CO ₂	7.47t
equivalent)	(5.70t)
Acidification (SO ₂	12.6kg
equivalent)	(9.82kg)
Energy resources (crude oil	144GJ
equivalent)	(114GJ)

% Figures in () indicated environmental impact including recycle effect *note3



Notes

- 1. Original LCA data is available on PEIDS: Product Environmental Information Declaration Sheet, and Product Data Sheet.
- 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PCR: Product Category Rule. Visit EcoLeaf website under JEMAI homepage at http://www.ecoleaf-jemai.jp/eng/ for details.
- 3. Recycle Effect illustrates an indirect influence to other products/services.
- 4. Basic Units used for calculations are based on Japan domestic data at this time, due to a lack of base data to establish localized Basic Unit for overseas locations adequately.
- 5. This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.

[Supplemental environmental information]

• Certified regulations: International Energy Star Program, EU RoHS.

• This product and its main components such as photoreceptor, toner, carrier are produced in our factories certified to ISO14001 management system standard.

PCR review was conducted by: PCR Deliberation Committee, January 01, 2008, Name of reprentative: Youji Uchiyama, University of Tsukuba, Graduate School

Programme operator: Japan Environmental Management Association for Industry, ecoleaf@jemai.or.jp

* In the case of an business entity certified as an Ecoleaf-data-collection system, the names of certification auditors are written.

The EcoLeaf is an environmental labeling program that belongs to the ISO-Type II category.



Environment Contact: RICOH Company, Ltd. Corporate Communication Center email : envinfo@ricoh.co.jp



Document control no.

Product Environmental Information Data Sheet (PEIDS)

Unit Function DB version V2.1

F-02B-03



Product vendor RICOH COMPANY, LTD. AD-15-E572 Characterization Ractor DB version v2.1 PCR name EP and JJ priver Product type SAVIN Pro C7100SX Pro80 PCR ID AD-04 Product weight (kg) 604 Package (kg) 57 Weight total (kg) In/Out items Life Cycle Stage Unit Product weight (kg) 604 Package (kg) 57 Weight total (kg) In/Out items Life Cycle Stage Unit Product weight (kg) 604 Package (kg) 57 Weight total (kg) Energy Consumption MJ 3.63E+0.4 9.36E+0.3 6.19E+0.3 9.21E+0.4 5.38E+0.1 Energy Consumption MJ 3.63E+0.4 9.36E+0.3 2.24E+0.3 1.48E+0.3 2.20E+0.4 1.29E+0.1 Unal kg 5.46E+0.2 6.27E+0.1 4.36E+0.0 3.12E+0.2 3.20E+0.2 5.77E-0.1 LNG kg 6.21E+0.1 3.51E+0.1 4.22E+0.0 2.91E+0.2 1.67E-0.1 Uranium content of an one kg 6.7E+0.2 0 0 3.20E+0.0	661 Recycle effect -3.00E+04 -7.18E+03 -4.67E+02 -1.19E+02 -2.61E+01 2.90E-04
PCR name EP and IJ printer Product type SAVIN Pro C7100SX Pro80 PCR ID AD-04 Product weight (kg) 604 Package (kg) 57 Weight total (kg) In/Out items Life Cycle Stage Unit Product on Raw material Product Distribution Use Disposition Energy Consumption MJ 3.63E+04 9.36E+03 6.19E+03 9.21E+04 5.38E+01 Energy Consumption Mcail 8.66E+03 2.24E+03 1.48E+03 2.20E+04 1.29E+01 Kerry Coal kg 5.46E+02 6.25E+01 4.98E+00 3.12E+02 3.24E+01 LNG kg 6.21E+01 3.51E+01 4.27E+00 2.91E+02 1.67E-01 Uranium content of an ore kg 6.24E+00 0 0 3.20E+02 0 If or content of an ore kg 6.24E+00 0 0 2.20E+00 0 Uranium content of an ore kg 6.24E+00 0 0 3.20E+02 0 If or content of an ore<	Recycle effect -3.00E+04 -7.18E+03 -4.67E+02 -1.19E+02 -2.61E+01
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Au content of an ore kg 0 0 0 0 0	-3.46E+01
Au content of an ore kg 0 0 0 0 0	-9.81E-03
Au content of an ore kg 0 0 0 0 0	-1.79E-01
Au content of an ore kg 0 0 0 0 0	-4.18E-01
Au content of an ore kg 0 0 0 0 0	-6.04E-01
Au content of an ore kg 0 0 0 0 0	0
	-5.94E+00
	0
- get the set of the s	-1.11E+01
	-5.17E+01
Halite kg 5.02E+01 0 0 6.56E+00 6.54E-03 Limestone kg 9.56E+01 0 0 1.14E+01 5.33E-01	-8.33E+01
Natural soda ash kg 6.51E-01 0 0 1.58E-01 0	-6.78E-01
Matural soda ash kg 9.56E+01 0 0 0.56E+00 0.56E+00 Renewable resources Wood kg 9.04E+05 4.89E+04 0.04E+03 0.04E+03 Value Wood kg 9.04E+05 4.89E+04 3.62E+05 2.79E+02	0.00E+00
esources Water kg 1.42E+05 4.89E+04 3.64E+03 3.62E+05 2.79E+02	-6.57E+04
² CO ₂ kg 2.34E+03 4.96E+02 4.30E+02 3.91E+03 5.47E+01	-1.73E+03
SO _x kg 2.44E+00 3.71E-01 2.73E-01 2.32E+00 2.86E-02	-1.72E+00
NO _x kg 2.73E+00 3.10E-01 1.97E+00 5.22E+00 6.05E-02	-1.56E+00
N ₂ O kg 1.75E-01 1.84E-02 6.51E-02 6.22E-01 7.21E-05	-1.65E-01
to Atmosphere CH ₄ kg 9.32E-03 1.13E-02 8.70E-04 4.83E-02 5.87E-05	1.41E-03
CO kg 5.67E-01 7.36E-02 5.33E-01 7.77E-01 1.07E-02	-1.31E-01
ਲ _ਦ NMVOC kg 1.83E-02 2.22E-02 1.70E-03 9.45E-02 1.15E-04	2.76E-03
ੁਵ੍ਹੇਵੁੰ <u>C_xH_v kg 8.29E-02 3.24E-03 5.76E-02 1.89E-01 1.84E-04</u>	-6.60E-02
ूङ् <u>Dust kg 3.70E-01 1.59E-02 1.86E-01 4.21E-01 3.37E-03</u>	-2.96E-01
NM/VOC Kg 1.83E-02 2.22E-02 1.70E-03 9.45E-02 1.15E-04 C_H_v kg 8.29E-02 3.24E-03 5.76E-02 1.89E-01 1.84E-04 Dust kg 3.70E-01 1.59E-02 1.86E-01 4.21E-01 3.37E-03 BOD kg - - - - - - Water system N total kg - - - - -	-
COD kg	-
No had by doing in the total in the second s	-
P total kg	-
SS kg -	-
	-9.36E+00 -1.52E+02
to Soil system Slag kg 1.67E+02 0 0 1.44E+01 0 Sludge kg 7.46E+01 0 0 4.72E+00 0	-7.41E+02
Low level radio-active waste kg 2.63E-03 2.95E-03 2.27E-04 1.26E-02 1.53E-05	2.03E-04
문 응 월 Exhaustible equivalent) kg 6.99E+02 1.88E+02 1.37E+02 1.51E+03 1.17E+00	-4.47E+02
Exhaustible resources are are areEnergy resources (crude oil equivalent)kg6.99E+021.88E+021.37E+021.51E+031.17E+00Mineral resources (Iron ore equivalent)kg4.78E+03004.15E+020	
Image: Property of the second seco	-2.93E+03
Big of the set of the	-2.93E+03
m ≥ > ≥ > ≥ > ≥ > ≥ > ≥ > ≥ > ≥ > ≥ > ≥ > ≥ >	-2.93E+03 -1.77E+03 -2.82E+00

[Notes for readers: EcoLeaf common rules]

Induce to reduce control common race,
I. Stage related
A. "Production" stage is intended for two sub-stages listed below.
(1) "Raw material" production: consists of mining, transportation and raw material production.
(2) "Product" product: consists of the parts processing, assembly and installation.
B. "Distribution" stage is intended for transportation of produced product. Transportation of consumables and maintenance goods (e.g. replacement parts) for use of the product are included into "Use" stage.

C. "Use" stage is intended for use of the product (active mode, standby mode, etc.) and production, transportation to disposal/recycle of consumables/maintenance goods (e.g. replacement parts).

D. *Disposition/Recycle* stage is intended for environmental impacts by product disposition/recycle, and deduction by recycling (e.g. impact reduction of raw material production).

E. "Recycle Effect" illustrates an indirect environmental influences to other products/services by use of reclaimed materials/parts, and/or by supply of used products to other businesses for material reclaim/parts

Case 2: Supply of used products to other businesses for material reclaim/parts reuse: Sum of increase of environmental impact by collection activities of used materials/parts, and decrease by volume reduction of used materials/parts. Case 2: Supply of used products to other businesses for material reclaim/parts reuse: Sum of increase of environmental impact by materials/parts reclaiming process, and decrease by volume reduction of new materials/parts production.

II. Inventory analyses A. Data of mineral ore on "Exhaustible resources" are presented in weight of pure ingredients (e.g. iron. aluminum) in the ore. B. Data on energy resources are presented based on origin in calorific value. e.g. Data on uranium ore presents weight of uranium concentrate, which is available for use as an atomic fuel. C. Data of discharge to water system are in actual figure (not calculated using unit function in inventory analyses).

Il Impact analyses Result of the "Impact analyses" is found in converting results of inventory analyses into total amount of a reference material (e.g. CO₂ in case of "Global Warming"). A. Impact "by resource consumption" represents magnitude of impacts to resource depletion. B. Impact "by emission/discharge to environment" represents magnitude of impacts to Atmosphere, Water and Soil system.

IV Data entry format

V use entry format A. Exponential notation, after the decimal point to two, should be used. B. Indicate "o" instead exponential notation, if the result of calculation or estimation is considered as "zero" or negligible in comparison to related results. C. Indicate "-" if calculation nor estimation can not be done, in order to differentiate to indicate "zero", or negligible in comparison to related results. (BGD for material production are for production from mineral ore. Those data do not include reclaiming processes like recovery from scrap.)

[Notes for readers: Target product specific]

This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.

Product data sheet

(Input data and parameters for LCA)



	(input data and param
Document control no.	F-03-03
Product vendor	RICOH COMPANY, LTD.
EcoLEaf registration no.	AD-15-E572

	PCR name	EP	and IJ print	er(PCR-ID:AD-04)	Product	type			SAVIN Pr	o C7100SX Pro80	
LCA	LCIA in units of:		1	product	Product weig	ght (kg)	604	Pad	kage (kg)	Weight total (kg)	661
1. Prod	uct information (p	er unit): pa	arts etc. by	material and by process/as	sembly me	thod					
Breakdown of primary materials Math breakdown of parts, which need to apply Processing / Assembly Base Units (P										Jnits (Parts B, C)	
	Material na	ime	Weight (kg)	Material name	Weight (kg)	P	rocess na	ame	Weight (kg) Process name	Weight (kg)
	Stainless steel		1.59E+01	Electronic circuit board	6.94E+00	P	ress mold Iron (kg)	•	4.59E+02	Parts assembly (kg)	6.00E+02
	Aluminum		3.29E+01	Ordinary steel	4.44E+02	Press molding: Nonferrous metal (kg)) 5.23E+01			
ct	Glass		6.36E+00	Clean water	7.43E+00	Injection molding (kg)) 7.57E+01			
roduct	Rubber		3.09E+00			Gla	ss moldin	g (kg)	9.46E+00		
ā	Other meta	als	1.94E+01								
	Paper		4.19E+01								
	Thermoplastic	c resin	7.83E+01								
	Thermosetting	g resin	5.18E+00								
	Subtota		2.03E+02	Subtotal	4.58E+02						
			Total		6.61E+02		Subtota		5.96E+02	Subtotal	6.00E+02
Note											

2. Production site information (per unit): Consumption and discharge/emission for production/processing/assembly within the site.

SOx and NOx should be indicated in SO₂, NO₂ equivalent.

ц.	Classification	Energy	Material	Energy	Material	Energy		
onsumption	Distribution	Electricity (kWh)	Clean water (kg)	Furnace LNG (kg)	Industrial water (kg)	Furnace urban gas (13A) (m ³)		
Suo	Quantity	2.92E+02	2.95E+02	1.56E+00	1.21E+03	2.88E+00		
õ	Note							
	Classification	Water system						
Emission/ Discharge	Distribution	Sewage processing (kg)						
Dis	Quantity	1.51E+03						
	Note							
Note								

3. Distribution stage information (per unit): means, distance, loading ratio, consumptions and emissions/discharges.

	Means of transportation	Diesel truck: 10 ton (kg·km)	Freight by ship (kg·km)	Freight by ship (kg · km)	Freight by ship (kg · km)	Freight by ship (kg∙km)			
	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
ion	Quantity	6.61E+02	1.52E+02	5.29E+01	1.90E+05	6.61E+02	9.02E+03	1.00E+02	5.96E+06
Distribution	Note								
	Means of	Freight by rail	Freight by rail	Freight by rail	Freight by rail	Diesel truck:	Diesel truck:	Diesel truck:	Diesel truck:
D	transportation	(kg∙km)	(kg∙km)	(kg∙km)	(kg•km)	20 ton (kg·km)	20 ton (kg·km)	20 ton (kg·km)	20 ton (kg·km)
Δ	Conditions	(kg•km) Mass(kg)	(kg·km) Distance (km)	(kg∙km) Loading Ratio(%w)	(kg∙km) Load(kg∙km)	20 ton (kg∙km) Mass(kg)	20 ton (kg·km) Distance (km)	20 ton (kg∙km) Loading Ratio(%w)	20 ton (kg·km) Load(kg·km)
Δ				Loading				Loading	

Note

4. Use stage (per unit): use condition (mode, term) including active mode, standby mode and maintenance.

4.1 Product and accessories subject to this analysis

	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Stainless steel plate (kg)	Aluminum plate (kg)	Glass (kg)	Styrene- butadiene rubber (SBR) (kg)	Copper plate (kg)	Zinc (kg)	Corrugated cardboard (kg)	ABS (kg)
	Quantity	1.29E+00	2.08E+00	1.89E+00	1.92E+00	1.01E-01	4.15E-02	1.13E+02	3.53E+00
	Note								
	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
Product	Distribution	Polycarbonate (kg)	Polycarbonate- ABS (70/30) (kg)	High density polyethylene (kg)	Low density polyethylene (kg)	PET (kg)	POM (polyacetal) (kg)	Polypropylene (kg)	Polystyrene (kg)
	Quantity	1.05E+00	3.52E+00	5.60E+01	2.06E+01	2.95E+02	5.87E+00	2.54E-01	3.47E+01
	Note								
	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Epoxy resin (EP) (kg)	Expandable hard polyurethane (Hard) (kg)	Expandable soft polyurethane (for automobile) (kg)	Electroplated steel Plate (kg)	Hot Dipped steel plate (kg)	Cold-Rolled steel plate (kg)	Press molding: Iron (kg)	Press molding: Nonferrous metal (kg)
	Quantity	2.11E-02	1.45E-01	3.77E-01	1.59E+00	6.17E-01	4.25E+01	3.80E+01	2.22E+00
	Note								

	Classification	Condition	Consumption	Consumption	Consumption	Energy	Energy	Condition	Energy
	Distribution	Diesel truck: 10 ton (kg∙km)	Injection molding (kg)	Glass molding (kg)	Parts assembly (kg)	Electricity (kWh)	Furnace LNG (kg)	Freight by ship (kg∙km)	Furnace urban gas (13A) (m ³)
	Quantity	7.68E+04	1.28E+02	3.81E+00	1.72E+02	1.24E+03	5.91E+01	3.67E+06	6.00E+01
	Note								
	Classification	Material	Water system	Consumption	Consumption	Condition	Condition	Condition	Condition
Product	Distribution	Industrial water (kg)	Sewage processing (kg)	Electricity (kWh)	Gasoline (kg)	Freight by rail (kg · km)	Diesel truck: 20 ton (kg·km)	Diesel truck: 10 ton (kg · km)	Freight by ship (kg · km)
_	Quantity	2.97E+02	2.97E+02	2.80E+03	6.60E+00	2.03E+06	3.94E+05	1.52E+03	7.27E+04
	Note								
	Classification	Condition	Condition	Condition	Condition	Condition	Condition		
	Distribution	Freight by rail (kg · km)	Diesel truck: 20 ton (kg·km)	Diesel truck: 10 ton (kg∙km)	Freight by ship (kg∙km)	Freight by rail (kg∙km)	Diesel truck: 20 ton (kg·km)		
	Quantity	4.02E+04	7.80E+03	4.22E+04	1.55E+06	8.57E+05	1.66E+05		
	Note								

Note

4.2 Disposition/Recycle information on consumables and replacement parts

	Classification	Process	Process	Process	Process	Process	Process	Process	Process
	Distribution	Diesel truck: 4 ton (kg∙km)	Landfill: Industrial waste (kg)	Incineration to landfill (as ash) (kg)	Shredding (kg)	Sorting: Iron (by magnetic force) (kg)	Sorting: Nonferrous metal (by eddy current with wind force) (kg)	Sorting: Plastics (by relative density difference in water) (kg)	Recycle: to Glass (kg)
	Quantity	1.10E+04	4.66E+01	1.13E+02	2.09E+02	2.08E+02	1.71E+02	1.69E+02	1.89E+00
	Note								
les	Classification	Process	Process	Process	Process	Deduction	Deduction	Deduction	Deduction
Consumables	Distribution	Recycle: to cold-rolled steel (kg)	Recycle: to Aluminum plate (kg)	Recycle: to copper plate (kg)	Recycle: to Thermoplastic pellet (kg)	Glass (kg)	Cold-Rolled steel plate (kg)	Aluminum plate (kg)	Copper plate (kg)
Ŭ	Quantity	3.65E+01	2.00E+00	1.37E-01	1.22E+02	1.85E+00	3.65E+01	2.00E+00	1.37E-01
	Note								
	Classification	Deduction	Process						
	Distribution	Polystyrene (kg)	Diesel truck: 10 ton (kg⋅km)						
	Quantity	1.22E+02	1.68E+05						
	Note								

Note

5. Disposition/Recycle stage information (per product): process method and scenarios

	Classification	Process	Process	Process	Process	Process	Process	Deduction	Process
	Distribution	Landfill: Industrial waste (kg)	Shredding (kg)	Incineration: Industrial waste (kg)	Incineration to landfill (as ash) (kg)	Diesel truck: 10 ton (kg ⋅ km)	Diesel truck: 4 ton (kg∙km)	High density polyethylene (kg)	Sorting: Iron (by magnetic force) (kg)
	Quantity	5.24E+01	6.14E+02	4.32E-01	3.98E+01	4.91E+05	3.85E+03	1.23E+00	6.06E+02
	Note								
	Classification	Process	Process	Process	Process	Process	Process	Process	Deduction
Scenario	Distribution	Sorting: Nonferrous metal (by eddy current with wind force) (kg)	Sorting: Plastics (by relative density difference in water) (kg)	Recycle: to Glass (kg)	Recycle: to cold-rolled steel (kg)	Recycle: to Aluminum plate (kg)	Recycle: to copper plate (kg)	Recycle: to Thermoplastic pellet (kg)	Glass (kg)
	Quantity	1.77E+02	1.28E+02	6.36E+00	4.28E+02	3.07E+01	2.45E+01	7.09E+01	6.24E+00
	Note								
	Classification	Deduction	Deduction	Deduction	Deduction				
	Distribution	Cold-Rolled steel plate (kg)	Aluminum plate (kg)	Copper plate (kg)	Polystyrene (kg)				
	Quantity	4.28E+02	3.07E+01	2.45E+01	6.97E+01				
	Note								

Note

6. Others

This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.