



**Normadix (without Locknut)
Cable Gland**

Representative product	Normadix PG11 N°06 N (CAP601104) Without Locknut Cable Gland	
Description of the product	The Eaton's Capri NORMADIX is a versatile nickel-plated brass cable gland for use in various industrial and residential applications with non-armored cables. It features an operating temperature range of -5°C to +70°C and is rated IP66 for ultimate protection from dust and water. Designed with a Pg thread and conforming to EN 62444, this cable gland is available as stand-alone or kitted with relevant accessories.	
Homogeneous Environmental Families Covered	CAP601104-NORMADIX PG11 N°06 N (Reference); CAP600704-NORMADIX PG07 N°04 N; CAP600964-NORMADIX PG09 N°5 N SANS OPERCULE CAP600904-NORMADIX PG09 N°05 N; CAP610904-NORMADIX QL PG09 N°05 N; CAP601304-NORMADIX PG13 N°07 N; CAP601604-NORMADIX PG16 N°08 N; CAP611104-NORMADIX QL PG11 N°06 N; CAP611304-NORMADIX QL PG13 N°07 N; CAP611604-NORMADIX QL PG16 N°08 N; CAP612104-NORMADIX QL PG21 N°09 N;	CAP602104-NORMADIX PG21 N°09 N CAP602904-NORMADIX PG29 N°10 N CAP612904-NORMADIX QL PG29 N°10 N CAP603604-NORMADIX PG36 N°11 N CAP604204-NORMADIX PG42 N°12 N CAP613604-NORMADIX QL PG36 N°11 N CAP614204-NORMADIX QL PG42 N°12 N CAP604884-NORMADIX PG48 N°13 N CAP604804-NORMADIX N°48 N°13 N CAP614884-NORMADIX QL PG48 N°13 N CAP614804-NORMADIX QL N°48 N°13 N
Functional unit	To protect the cable entry in electrical enclosures and equipment from ingress of water and dust for a lifetime of 20 years. Product shall conform to EN 62444 standard.	

Company information	Eaton Cooper Capri SAS 36 - 40 rue des Fontenils 41600, Nouan-le-Fuzelier, France Email: productstewardship-es@eaton.com
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Constituent Materials			
Reference product mass	1.83E-02 Kg (With packaging)		
Category PEP Material	Materials	Mass (kg)	Percentage (%)
Metal	Brass	1.45E-02	79.3%
Plastic	PVC	1.06E-03	5.8%
Plastic	PVC Sheet	9.63E-04	5.3%
Others	Wood	6.19E-04	3.4%
Other	Cardboard	4.82E-04	2.6%
Plastic	PE-LD film	2.47E-04	1.4%
Plastic	PE-LD	1.85E-04	1.0%
Other	Paper	1.67E-04	0.9%
Other	Glue	2.05E-05	0.1%
Metal	Nickel	1.41E-05	<0.1%
Metal	Silicon	1.28E-05	<0.1%
Total		1.83E-02	100.0%

Substance Assessment
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) with an exemption and the product contains Lead as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).

Additional Environmental Information	
Manufacturing	The reference product is assembled at an Eaton plant holding management system certifications according to ISO 14001 standards.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	The installation process does not require any energy consumption and there is no waste other than the obsolete product packaging generated during this step.
Use	The product does not require energy consumption and maintenance during operation.
End of life	The recyclability rate of the overall product is 66.08% if it is properly dismantled prior to shredding. The rate is calculated based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental Impacts	
The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life. System modelling was carried out using the commercial LCA software EIME v6.1.2 with database version CODDE-2023-02. Indicators Set: PEF EF 3.0 (Compliance: PEP ed.4, EN15804+A2) v2.0	
Manufacturing Phase	The product is assembled as well as packed at Eaton facility Eaton Nouan-Le-Fuzelier, France plant. Energy model used: France
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.
Installation Phase	Product is installed in Europe. Installation of product and treatment of packaging waste are considered in this phase. There is no energy consumption for reference product. Energy model used: Europe
Use Phase	Reference lifetime: 20 years Usage profile: No energy consumption by the product during its useful life. Also, product do not require any maintenance/replacement during useful life.
End of life Phase	Product disposed with WEEE guidelines. Energy model used: Europe
Module D	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and loads beyond the boundaries of the system, and are not to be included in the life cycle totals.

Environmental Impact Indicators: Mandatory

Environmental impact indicators	Unit	Sum	Manufacturing	Distribution	Installation	Use	End of life	Module-D
Resource use, minerals and metals (PEF-ADPe)	kg Sb eq.	2.64E-05	2.38E-05	1.71E-10	4.05E-11	0.00E+00	2.59E-06	-1.25E-05
Resource use, fossils (PEF-ADPp)	MJ	1.82E+00	1.71E+00	6.07E-02	7.83E-03	0.00E+00	3.58E-02	-7.00E-01
Acidification (PEF-AP)	mol H+ eq.	3.49E-03	3.11E-03	2.76E-05	2.57E-06	0.00E+00	3.43E-04	-1.52E-03
Eutrophication, freshwater (PEF-Epf)	kg P eq.	1.32E-04	4.64E-05	1.63E-09	5.26E-08	0.00E+00	8.57E-05	-2.45E-07
Eutrophication marine (PEF-Epm)	kg N eq.	1.69E-04	1.15E-04	1.29E-05	1.42E-06	0.00E+00	3.92E-05	-4.42E-05
Eutrophication, terrestrial (PEF-Ept)	mol N eq.	1.97E-03	1.31E-03	1.42E-04	8.21E-06	0.00E+00	5.03E-04	-4.98E-04
Climate change (PEF-GWP)	kg CO2 eq.	1.38E-01	1.02E-01	4.36E-03	1.98E-03	0.00E+00	3.03E-02	-4.02E-02
Climate change-Biogenic (PEF-GWPb)	kg CO2 eq.	4.84E-03	3.35E-03	0.00E+00	2.54E-05	0.00E+00	1.47E-03	-1.59E-03
Climate change-Fossil (PEF-GWPF)	kg CO2 eq.	1.33E-01	9.82E-02	4.36E-03	1.96E-03	0.00E+00	2.88E-02	-3.86E-02
Climate change-Land use and land use change (PEF-GWPlu)	kg CO2 eq.	1.18E-07	4.11E-08	0.00E+00	-5.64E-11	0.00E+00	7.67E-08	0.00E+00
Ozone depletion (PEF-ODP)	kg CFC-11 eq.	2.44E-08	2.33E-08	6.67E-12	1.72E-11	0.00E+00	1.14E-09	-1.23E-08
Photochemical ozone formation - human health (PEF-POCP)	Kg NMVOC eq.	6.98E-04	5.36E-04	3.58E-05	2.27E-06	0.00E+00	1.23E-04	-2.34E-04
Water use (PEF-WU)	m3 eq.	1.31E-01	9.21E-02	1.65E-05	2.54E-04	0.00E+00	3.86E-02	-3.71E-02

Inventory Flow Indicators: Mandatory

Environmental impact indicators	Unit	Sum	Manufacturing	Distribution	Installation	Use	End of life	Module-D
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.06E-01	8.61E-02	8.11E-05	7.64E-04	0.00E+00	1.93E-02	-3.19E-02
Use of renewable primary energy resources used as raw material	MJ	4.01E-02	4.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.24E-03
Total use of renewable primary energy resources	MJ	1.46E-01	1.26E-01	8.11E-05	7.64E-04	0.00E+00	1.93E-02	-3.92E-02
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.75E+00	1.65E+00	6.07E-02	7.83E-03	0.00E+00	3.58E-02	-6.97E-01
Use of non renewable primary energy resources used as raw material	MJ	6.43E-02	6.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.05E-03
Total use of non-renewable primary energy resources	MJ	1.82E+00	1.71E+00	6.07E-02	7.83E-03	0.00E+00	3.58E-02	-7.00E-01
Use of secondary material	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater	m³	3.05E-03	2.14E-03	3.85E-07	5.93E-06	0.00E+00	8.99E-04	-8.65E-04
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	1.79E-02	6.21E-03	0.00E+00	6.48E-05	0.00E+00	1.16E-02	0.00E+00
Materials for energy recovery	kg	6.06E-04	8.63E-05	0.00E+00	4.66E-04	0.00E+00	5.32E-05	0.00E+00
Exported Energy	kg	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00
Hazardous waste disposed	kg	1.72E+00	1.71E+00	0.00E+00	1.59E-05	0.00E+00	1.56E-02	-9.56E-01
Non hazardous waste disposed	kg	1.17E-02	4.67E-03	1.53E-04	2.64E-03	0.00E+00	4.27E-03	-1.63E-03
Radioactive waste disposed	MJ	3.94E-06	3.53E-06	1.09E-07	1.24E-07	0.00E+00	1.81E-07	-1.68E-06
Biogenic carbon content of the product	Kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	Kg C	4.36E-04	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Environmental Impact Indicators: Optional

Environmental impact indicators	Unit	Sum	Manufacturing	Distribution	Installation	Use	End of life	Module-D
Ecotoxicity, freshwater (PEF-CTUe)	CTUe	1.61E+01	9.23E+00	2.93E-03	1.36E-02	0.00E+00	6.89E+00	-3.04E+00
Human toxicity, cancer (PEF-CTUh-c)	CTUh	2.63E-07	2.63E-07	7.65E-14	6.18E-11	0.00E+00	7.63E-11	-1.46E-07
Human toxicity, non-cancer (PEF-CTUh-nc)	CTUh	7.98E-08	7.39E-08	8.28E-12	5.62E-12	0.00E+00	5.83E-09	-3.96E-08
Ionising radiation, human health (PEF-IR)	kg U ²³⁵ eq.	4.25E+00	4.24E+00	1.06E-05	1.15E-04	0.00E+00	1.72E-03	-2.20E+00
Land use (PEF-LU)	--	2.78E-01	9.67E-02	0.00E+00	7.35E-04	0.00E+00	1.80E-01	-2.65E-05
EF-particulate Matter (PEF-PM)	Disease occurrence	2.19E-08	1.89E-08	2.24E-10	1.62E-11	0.00E+00	2.77E-09	-8.98E-09
Total Primary Energy	MJ	1.96E+00	1.84E+00	6.08E-02	8.59E-03	0.00E+00	5.51E-02	-7.39E-01

To evaluate the environmental impact of other product covered by this PEP, multiply the impact figures by-

Factors for Manufacturing, Distribution, Installation, Use, End-of-Life and Module D Phase:

Product	Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
CAP601104 (Reference)	NORMADIX PG11 N°06 N	All Phases	1.00												
CAP600704	NORMADIX PG07 N°04 N	Manufacturing	0.47	0.49	0.48	0.47	0.50	0.49	0.50	0.53	0.50	0.47	0.48	0.49	0.48
		Distribution	0.50												
		Installation	0.70												
		Use	1.00												
		End of Life	0.47	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
		Module D	0.48												
CAP600964	NORMADIX PG09 N°5 N SANS OPERCULE	Manufacturing	0.66	0.67	0.66	0.66	0.68	0.67	0.68	0.70	0.68	0.66	0.66	0.67	0.67
		Distribution	0.68												
		Installation	0.93												
		Use	1.00												
		End of Life	0.64	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
		Module D	0.66												
CAP600904	NORMADIX PG09 N°05 N	Manufacturing	0.67	0.69	0.68	0.67	0.69	0.69	0.69	0.72	0.69	0.67	0.68	0.69	0.68
		Distribution	0.70												
		Installation	0.98												
		Use	1.00												
		End of Life	0.65	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		Module D	0.66												
CAP610904	NORMADIX QL PG09 N°05 N	Manufacturing	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.94	0.94	0.94	0.94	0.94
		Distribution	0.94												
		Installation	1.28												
		Use	1.00												
		End of Life	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
		Module D	0.96												
CAP601304	NORMADIX PG13 N°07 N	Manufacturing	1.17	1.16	1.17	1.17	1.16	1.16	1.16	1.14	1.16	1.17	1.17	1.16	1.17
		Distribution	1.16												
		Installation	1.21												
		Use	1.00												

Product	Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		End of Life	1.14	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
		Module D	1.14												
CAP601604	NORMADIX PG16 N°08 N	Manufactu ring	1.38	1.35	1.37	1.38	1.35	1.35	1.35	1.30	1.35	1.38	1.37	1.36	1.37
		Distributio n	1.34												
		Installation	1.21												
		Use	1.00												
		End of Life	1.36	1.37	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
		Module D	1.35												
CAP611104	NORMADIX QL PG11 N°06 N	Manufactu ring	1.54	1.50	1.52	1.54	1.48	1.50	1.48	1.42	1.49	1.54	1.52	1.51	1.52
		Distributio n	1.48												
		Installation	2.35												
		Use	1.00												
		End of Life	1.32	1.33	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
		Module D	1.37												
CAP611304	NORMADIX QL PG13 N°07 N	Manufactu ring	1.84	1.77	1.80	1.84	1.75	1.77	1.75	1.63	1.75	1.84	1.81	1.78	1.80
		Distributio n	1.74												
		Installation	3.25												
		Use	1.00												
		End of Life	1.47	1.49	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
		Module D	1.54												
CAP611604	NORMADIX QL PG16 N°08 N	Manufactu ring	2.12	2.01	2.06	2.11	1.98	2.02	1.99	1.83	1.99	2.12	2.08	2.04	2.06
		Distributio n	1.98												
		Installation	3.26												
		Use	1.00												
		End of Life	1.74	1.77	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
		Module D	1.81												
CAP612104	NORMADIX QL PG21 N°09 N	Manufactu ring	3.12	2.93	3.02	3.12	2.87	2.93	2.88	2.56	2.89	3.12	3.05	2.97	3.02
		Distributio n	2.89												
		Installation	3.26												
		Use	1.00												
		End of Life	2.77	2.84	2.77	2.77	2.77	2.77	2.77	2.77	2.78	2.77	2.78	2.77	2.77
		Module D	2.82												
CAP602104	NORMADIX PG21 N°09 N	Manufactu ring	3.60	3.38	3.48	3.59	3.30	3.38	3.32	2.95	3.33	3.60	3.51	3.42	3.48
		Distributio n	3.35												

Product	Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		Installation	2.15												
		Use	1.00												
		End of Life	3.50	3.58	3.50	3.50	3.51	3.50	3.51	3.50	3.51	3.50	3.51	3.51	3.50
		Module D	3.60												
CAP602904	NORMADIX PG29 N°10 N	Manufactu ring	4.61	4.47	4.49	4.60	4.36	4.43	4.39	4.04	4.40	4.61	4.52	4.45	4.49
		Distributio n	4.53												
		Installation	3.93												
		Use	1.00												
		End of Life	4.61	4.64	4.61	4.61	4.62	4.61	4.62	4.61	4.62	4.61	4.62	4.62	4.61
		Module D	4.61												
CAP612904	NORMADIX QL PG29 N°10 N	Manufactu ring	5.04	5.06	4.98	5.04	4.95	4.99	4.99	4.81	5.00	5.04	4.99	4.99	4.98
		Distributio n	5.24												
		Installation	6.46												
		Use	1.00												
		End of Life	5.04	5.02	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04
		Module D	5.02												
CAP603604	NORMADIX PG36 N°11 N	Manufactu ring	5.49	6.36	5.72	5.50	6.29	6.14	6.39	7.19	6.36	5.48	5.65	5.97	5.74
		Distributio n	7.04												
		Installation	3.98												
		Use	1.00												
		End of Life	8.00	7.47	7.98	8.00	7.96	7.97	7.94	8.00	7.94	8.00	7.93	7.96	7.99
		Module D	7.10												
CAP604204	NORMADIX PG42 N°12 N	Manufactu ring	4.39	8.20	5.71	4.48	8.37	7.52	8.59	12.87	8.44	4.39	5.33	6.80	5.79
		Distributio n	10.46												
		Installation	7.67												
		Use	1.00												
		End of Life	11.92	10.71	11.88	11.91	11.83	11.84	11.78	11.92	11.77	11.92	11.76	11.83	11.91
		Module D	10.59												
CAP613604	NORMADIX QL PG36 N°11 N	Manufactu ring	4.39	8.20	5.71	4.48	8.37	7.52	8.59	12.87	8.44	4.39	5.33	6.80	5.79
		Distributio n	10.46												
		Installation	24.16												
		Use	1.00												
		End of Life	8.62	7.96	8.60	8.62	8.57	8.58	8.55	8.62	8.54	8.62	8.53	8.57	8.61
		Module D	8.32												
CAP614204	NORMADIX QL PG42 N°12 N	Manufactu ring	5.18	10.71	6.99	5.30	10.82	9.64	11.14	16.91	10.95	5.17	6.47	8.59	7.13

Product	Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Ep _f (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWP _b (kg CO ₂ eq.)	GWP _f (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		Distributio n	14.01												
		Installation	31.98												
		Use	1.00												
		End of Life	11.87	10.66	11.83	11.86	11.78	11.79	11.73	11.87	11.73	11.87	11.71	11.78	11.86
		Module D	11.17												
CAP604884	NORMADIX PG48 N°13 N	Manufactu ring	6.28	11.47	7.90	6.39	11.45	10.38	11.78	16.87	11.60	6.27	7.43	9.40	8.04
		Distributio n	14.66												
		Installation	22.83												
		Use	1.00												
		End of Life	13.69	13.14	13.68	13.69	13.65	13.66	13.63	13.69	13.63	13.69	13.62	13.65	13.69
		Module D	13.27												
CAP604804	NORMADIX N°48 N°13 N	Manufactu ring	9.74	13.33	10.57	9.80	12.89	12.31	13.21	15.68	13.13	9.73	10.32	11.62	10.70
		Distributio n	15.87												
		Installation	31.98												
		Use	1.00												
		End of Life	13.62	12.95	13.60	13.61	13.57	13.57	13.54	13.62	13.54	13.62	13.53	13.57	13.61
		Module D	13.31												
CAP614884	NORMADIX QL PG48 N°13 N	Manufactu ring	13.06	14.85	13.06	13.07	14.02	13.95	14.32	14.02	14.33	13.06	13.04	13.60	13.17
		Distributio n	16.63												
		Installation	33.19												
		Use	1.00												
		End of Life	13.88	13.74	13.87	13.88	13.87	13.87	13.86	13.88	13.86	13.88	13.86	13.87	13.88
		Module D	14.17												
CAP614804	NORMADIX QL N°48 N°13 N	Manufactu ring	13.92	15.22	13.70	13.92	14.29	14.36	14.58	13.54	14.62	13.92	13.75	14.10	13.81
		Distributio n	16.80												
		Installation	33.19												
		Use	1.00												
		End of Life	13.92	13.97	13.92	13.92	13.92	13.92	13.93	13.92	13.93	13.92	13.93	13.92	13.92
		Module D	14.37												

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This Product Environmental Profile and its content is based on information available to us. It refers to the product at the date of issue. We make no express or implied representations or warranties with respect to the information contained herein.

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Verifier accreditation Number	VH54	Supplemented by	NA
Date of issue	05-2024	Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »			