

EU Ecolabel for Printed paper, Stationery paper and Paper carrier bag products

Webinar

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Agenda

- *Introduction (10 min)*
- *Presentation of each criteria + Q/A sessions (50 min)*
- *Practical information on application process + Q/A session (10 min)*
- *Closure (5 min)*

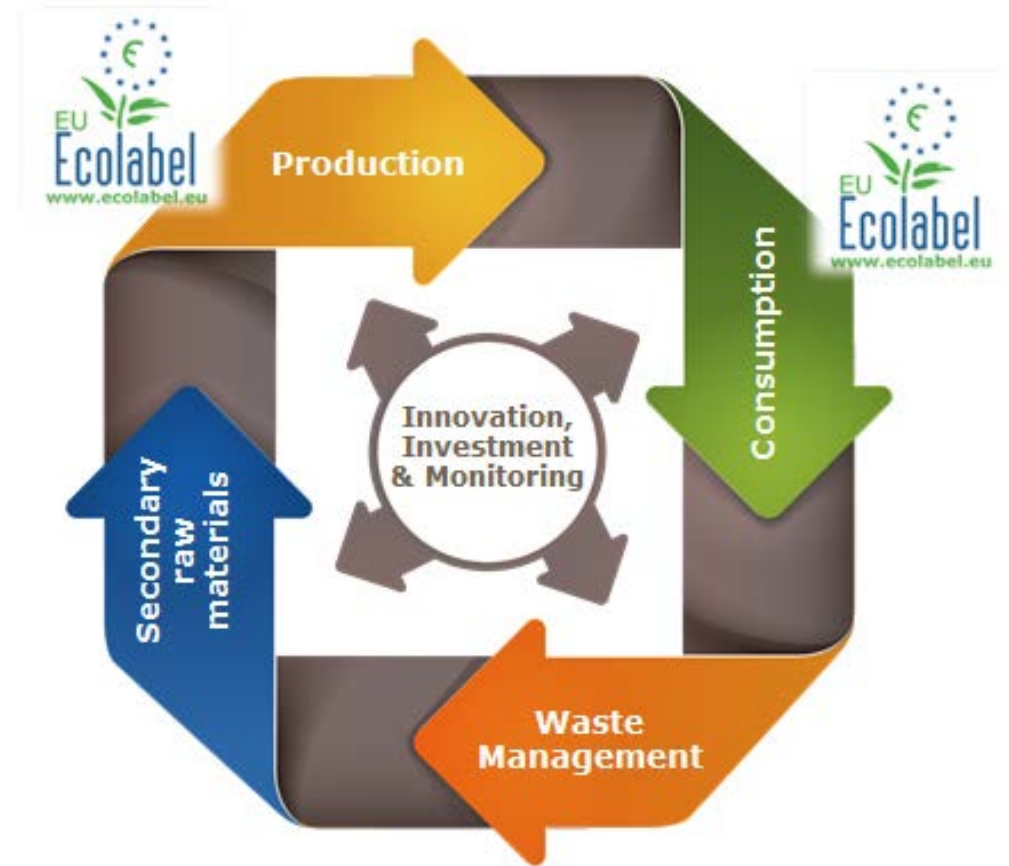
What is the EU Ecolabel?



- The **official European Union label for environmental excellence**
- Established in **1992** (EU Ecolabel Regulation n. 66/2010)
- Managed by the **European Commission** and Member States **Competent Bodies**
- A **voluntary** scheme (**ISO 14024-type I** -ecolabel) for companies aiming to promote products and services with a **lower environmental impact**
- An effective tool to **empower consumers' and procurers'** sustainable choices

EU Ecolabel: powerful tool ...

- Supports the implementation of:
 - the **EU Green Deal**
 - the **new Circular Economy Action Plan**
 - the **new Consumer Agenda**
- Represents the **opportunity for a sustainable recovery** in the circular economy context



...connecting citizens and market actors to overall political objectives

The EU Ecolabel

- **Scope**: applies to **goods and services**, (for which criteria have been established), supplied **for distribution, consumption or use** on the **EU market**
- **Excluded from scope**: medicinal products for human/veterinary use, any type of medical device. Currently food and feed
- **Potential applicants**: **producers, manufacturers, importer, service providers, wholesalers or retailers**
- **Awarding bodies**: National **Competent Bodies** designated by MS
- **Strengths**: **Transparent**, multi-stakeholder criteria development
Reliable, third party verification system



24 Eligible Product Groups



Rinse-off Cosmetic Products



Absorbent Hygiene Products



Hard Surface Cleaning Products



Detergents for Dishwashers



Industrial and Institutional Automatic Dishwasher Detergents



Hand Dishwashing Detergents



Laundry Detergents



Industrial and Institutional Laundry Detergents



Textiles



Footwear



Paints and Varnishes



Tissue paper and tissue products



Electronic Displays



Wood-, cork- and bamboo-based floor coverings



Hard Coverings



Furniture



Bed Mattresses



Growing Media, Soil Improvers and Mulch



Lubricants



Printed Paper, Stationery Paper,
Paper Carrier Bag Products



Graphic paper



Indoor Cleaning Services



Tourist Accommodation

www.ecolabel.eu

Retail financial products
(under development)

ECAT:
Catalogue of awarded products
<http://ec.europa.eu/ecat/>



EU Ecolabel key figures

as per September 2020

75 796 products (goods and services) 1 757 licenses awarded
with the EU Ecolabel in 24 different product categories

Fastest growing product categories over the past 6 months

Hand dishwashing
detergents
+23%

Furniture
+56%

Industrial
Laundry
Detergents
+91%

Indoor Cleaning
Services
+116%

Number of products

Number of products awarded per country



Do-it-yourself
28 739



Personal care products
2 718



Paper
18 666



Furniture and
bed mattresses
766



Coverings
9 415



Holiday accommodation
414



Cleaning up
7 725



Gardening
162



Clothing and textiles
7 191



Electronic displays
1



> 4 000 products > 2 000 < 4 000 > 500 < 2 000 < 500

Spain 15 768	United Kingdom 2 151	Cyprus 84
Italy 9 703	Denmark 2 128	Hungary 64
France 7 958	Netherlands 1 605	Romania 31
Germany 6 714	Estonia 863	Latvia 26
Czech Republic 5 352	Austria 688	Croatia 21
Belgium 5 202	Finland 647	Bulgaria 9
Sweden 4 811	Lithuania 458	Malta 6
Portugal 4 631	Norway 150	Slovak Republic 5
Greece 3 523	Ireland 112	Luxembourg 1
Poland 2 989	Slovenia 96	Iceland 0

TOTAL 75 796

www.ecolabel.eu

September 2020 EU Ecolabel figures

- The number of EU Ecolabel goods and services kept growing despite the COVID-19 crisis (+21% licences and +7% products in respect to March 2020)
- 1 757 licenses are awarded for 75 796 products
- Highest n. products for: indoor **paints** and varnishes, tissue **paper** and tissue products, hard **coverings**, **textiles**, hard surface **cleaning products** and **tourist accomodations**.
- Leading countries: **Spain, Italy, France**
- More info available at:
<https://ec.europa.eu/environment/ecolabel/facts-and-figures.html>



European
Commission

The EU Ecolabel criteria

- Address **10-20%** env. best products on the market
- Cover the **main environmental impacts** of the product and their technical performance
- Determined on **scientific basis** considering the whole life cycle of products
- Include **health, safety, social and ethical aspects**, where appropriate
- Favor substitution of **hazardous substances** with safer ones
- Support **durability, reusability, recyclability and recycled content** of products
- Guarantee compliance with **existing EU legislation**
- Include **fitness for use** requirements
- Are **regularly revised** to follow technological evolution
- Adopted as **Commission Decisions**

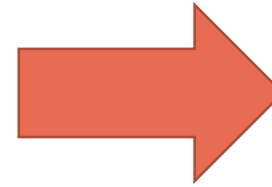


INTRODUCTION

Commission Decision (EU) 2020/1803 of 27/11/2020 establishing EU ECOLABEL for PRINTED PAPER, STATIONERY PAPER AND PAPER CARRIER BAG PRODUCTS

Merging of two product groups:

- EU Ecolabel criteria for Converted paper products (2014/256/EU)
- EU Ecolabel criteria for printed paper products (2012/481/EU)
- Criteria revision process 2018-2020



✓ Validity until 31 December 2028

✓ Transition period for the current licenses 18 months: 26/05/2022
(old criteria applicable until 26/01/2021)

USER MANUAL- applicants guidance
(available on www.ecolabel.eu)
Final cross check - Available soon

COMMISSION DECISION (EU) 2020/1803

of 27 November 2020

establishing the EU Ecolabel criteria for printed paper, stationery paper, and paper carrier bag products

(notified under document C(2020) 8155)

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

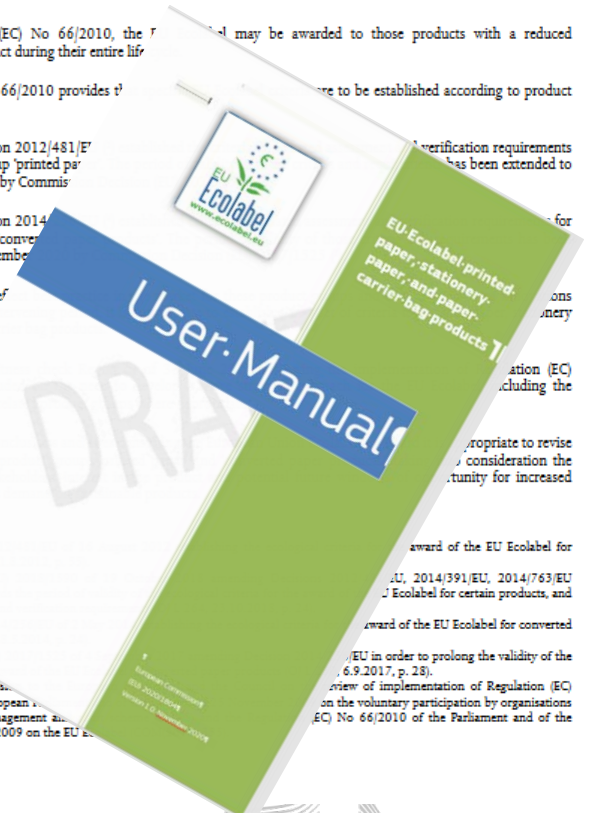
Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 66/2010 of the European Parliament and of the Council of 25 November 2009 on the EU Ecolabel⁽¹⁾, and in particular Article 8(2) thereof,

After consulting the European Union Ecolabelling Board,

Whereas:

- (1) Under Regulation (EC) No 66/2010, the EU Ecolabel may be awarded to those products with a reduced environmental impact during their entire life cycle.
 - (2) Regulation (EC) No 66/2010 provides that the criteria to be established according to product groups.
 - (3) Commission Decision 2012/481/EU⁽²⁾ for the product group 'printed paper' was extended to 31 December 2020 by Commission Decision 2019/1791/EU⁽³⁾.
 - (4) Commission Decision 2014/256/EU⁽⁴⁾ for the product group 'converted paper' was extended to 31 December 2020 by Commission Decision 2019/1791/EU⁽³⁾.
 - (5) In order to better reflect the environmental requirements introduced in the EU Ecolabel criteria for printed paper, and paper carrier bag products, it is necessary to revise the criteria for these product groups.
 - (6) The EU Ecolabel criteria for printed paper, stationery paper, and paper carrier bag products should be established according to the requirements set out in Regulation (EC) No 66/2010, including the criteria for the EU Ecolabel for printed paper, stationery paper, and paper carrier bag products.
 - (7) In line with the criteria for the EU Ecolabel for printed paper, stationery paper, and paper carrier bag products, it is appropriate to revise the criteria for these product groups, taking into account the opportunity for increased environmental protection.
- (1) OJ L 330, 22.11.2009, p. 1.
- (2) Commission Decision 2012/481/EU of 12 September 2012 establishing the EU Ecolabel criteria for the product group 'printed paper'.
- (3) Commission Decision 2019/1791/EU of 25 November 2019 extending the validity of the EU Ecolabel criteria for the product group 'printed paper' and the product group 'converted paper'.
- (4) Commission Decision 2014/256/EU of 12 September 2014 establishing the EU Ecolabel criteria for the product group 'converted paper'.
- (5) Report from the Commission to the European Parliament and the Council on the implementation of Regulation (EC) No 66/2010 of the European Parliament and of the Council of 25 November 2009 on the EU Ecolabel.



Presentation of new EU Ecolabel

Commission Decision (EU) 2020/1803

Scope (Art. 1)

1. Printed paper products

- > 90% w/w of paper substrate
- For books, catalogues, ... >80 % w/w paper substrate

2. Envelopes - >90% w/w paper substrate

3. Paper carrier bags (incl. wrapping paper) – 100% w/w paper substrate

4. Stationery paper products

- >70% w/w of paper substrate except for some storage product

Maximum allowed content of plastic and metal adapted to a product type



Excluded from the scope:

- (a) packaging and elements adhered to packaging;
- (b) corrugated board;
- (c) food contact materials and articles intended to come into contact with food (Art 1 of Commission Regulation (EC) No 1935/2004 ;
- (d) 'tissue paper and tissue products' (Art. 2 in Commission Decision (EU) 2019/70);
- (e) fragranced products;
- (f) polyvinyl chloride (PVC).

Product type	Share of paper / paper board / paper based substrate [% weight]	Share of plastic component [%]	Metal component [g per product]	Requirements for the product type are fulfilled? (Select yes/no/not relevant from the list)	
	Minimum share	Maximum share	Maximum weight		
Books, Catalogues, booklets, forms	(80 %)	(10 %)	(30 g)		
Other printed paper products	(90 %)	(10 %)	(30 g)		
Envelopes	(90 %)	no ceiling applies	(30 g)		
Paper carrier bags incl. wrapping paper	(100 %)	no plastics allowed	no metals allowed		
Suspension files with metal fastener	no ceiling applies	(10 %)	(30 g)		
Exercise books	(70 %)	(13 %)	(30 g)		
Notebooks	(70 %)	(13 %)	(30 g)		
Diaries	(70 %)	(13 %)	(30 g)		
Ring binders and lever arch files up to 225 sheets	(70 %)	(13 %)	(75 g)		
Ring binders and lever arch files more than 225 sheets	(70 %)	(13 %)	(170 g)		
Folders with metal fasteners up to 225 sheets	no ceiling applies	(10 %)	(75 g)		
Folders with metal fasteners more than 225 sheets	no ceiling applies	(10 %)	(170 g)		



Commission Decision (EU) 2020/1803

1. Substrate;

2. Restricted substances:

- 2.1. Restrictions on Substances of Very High Concern (SVHCs);
- 2.2. Restrictions on substances classified under Regulation (EC) No 1272/2008 of the European Parliament and of the Council ;
- 2.3. Biocidal products and biocidal active substances;
- 2.4. Cleaning agents;
- 2.5. Alkyl phenol ethoxylates, halogenated solvents and phthalates;
- 2.6. Further restrictions applying to printing inks, toners and varnishes;
- 2.7. Toluene recovery from rotogravure printing;

3. Recyclability:

- 3.1. Removability of non-paper parts;
- 3.2. Repulpability;
- 3.3. Adhesives removability;
- 3.4. Deinkability;

4. Emissions:

- 4.1. Emissions to water from rotogravure printing;
- 4.2. VOCs emission from installations covered by Directive 2010/75/EU of the European Parliament and of the Council or equivalent installations;
- 4.3. VOCs emissions from printing processes not covered by Directive 2010/75/EU of the European Parliament and of the Council;

5. Waste:

- 5.1. Waste management system;
- 5.2. Paper for recycling from printing facilities;
- 5.3. Paper for recycling from stationery paper product and carrier bags production sites;

6. Energy use;

7. Training;

8. Fitness for use;

9. Information on the product;

10. Information appearing on the EU Ecolabel.

Commission Decision (EU) 2020/1803

- requires that the paper substrate, including paper board, is EU Ecolabel certified;
- sets strict limits on the use of hazardous substances;
- sets requirements to guarantee the product recyclability and a proper waste management system including limits on the maximum amount of paper waste produced;
- sets requirements on emissions, particularly on the reduction of VOCs emissions to help guarantee associated benefits for worker health and for reductions in local and regional atmospheric pollution;
- sets requirements on energy consumption at the production site.

PREAMBLE: A&V – key aspects

- The ecological criteria cover the manufacturing of products, including constituent sub-processes (i.e. paper production, printing, lamination, etc). Transport and packaging are not covered.
- Each criterion needs to be met → the specific assessment and verification requirements are indicated within each criterion (*additional clarification: User Manual*)
- Parts of the final product that are printed or converted by a sub-contractor shall also fulfil the related requirements (unless separately specified e.g. non-fixed inserts).
- An application can be submitted for a product line (the product group of certain type):
 - a theoretical product described based on the format, materials, inks, and bindings used. For this product the license would be given to that fulfils the general description.
- Prerequisite: a product shall meet all applicable legal requirements of the country or countries in which the product is placed on the market.

User Manual

- Part A and B: General Information and description of requirements for the product Assessment and Verification.
- Part C and D: Application and Verification Form – Separated Excel file that should be completed by an applicant. It includes the declarations from the applicant for each requirement.
- VOCs Mass Balance calculator - Separated Excel file to calculate VOCs emission and verify requirements of criterion 4.2 and/or 4.3.
- Annex I. Declarations from an external suppliers – when applicable, proof of compliance with the requirement.
- Part E: Checklist

CRITERION 1: Substrate

The paper substrate, including paperboard used in a final product shall bear the EU Ecolabel for “Graphic paper” in accordance with Annex I to Commission Decision (EU) 2019/70 .

Documentation

- One of the following documents that demonstrates compliance with the criterion:
 - Valid EU Ecolabel certificate for “Graphic paper” in accordance with Annex I to Commission Decision (EU) 2019/70;
 - Acknowledgement delivered by a Competent Body that a given substrate is EU Ecolabel certified
 - Competent body contract appendix with EU Ecolabel license number and paper trade name
- Description of the paper substrate(s) used in a product

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 1).

1 – Substrate of the ecolabel product ← Menu

WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE “ANSWERS/OPTIONS” COLUMN AND THE TABLE! (WHITE CELLS)

	Answers / Options (to be filled by applicant)	NOTE (To be filled by applicant if needed)
Each paper substrate used in the product bears the EU ecolabel.		

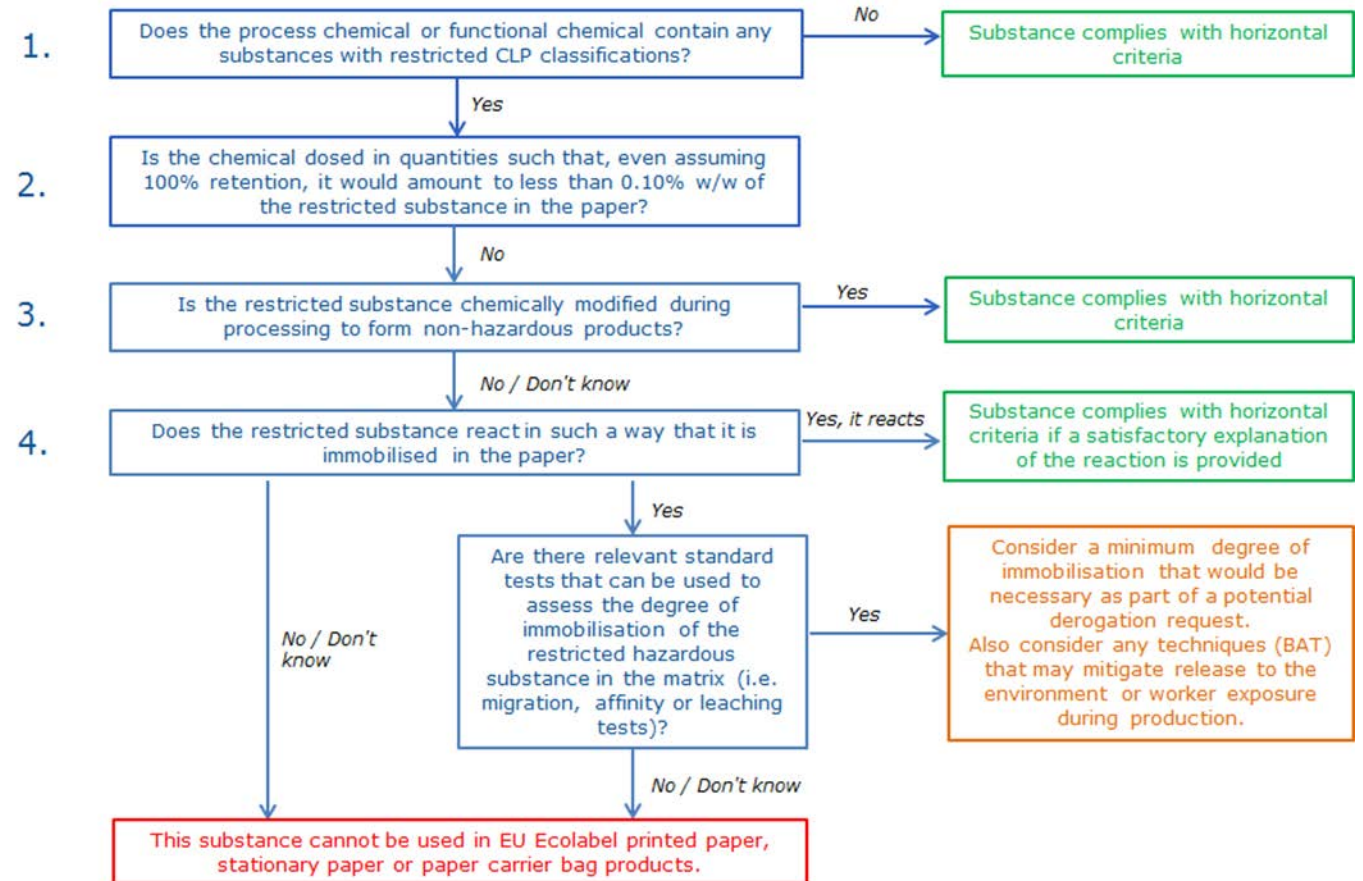
Please enter below the trade names, the supplier and the amounts of paper used.
It is mandatory to provide a copy of a valid EU Ecolabel certificate according to Annex I to Commission Decision (EU) 2019/70 for each paper substrate used in the product.
Select from the dropdown list in column 'Documentation'.

Trade name	Supplier	Amount of paper [kg]	Documentation (select from the list)
			Competent body contract appendix with EU ecolabel license number and paper trade name

Example - UM Part C and D: Application and Verification Form

Criterion 2. Restricted substances

- 2.1. SVHC restrictions (final product level)
- 2.2. CLP restrictions (final product level)
- 2.3. Biocidal products and active substances (chemical level)
- 2.4. Cleaning agents (chemical level)
- 2.5. APEOs, halogenated solvents and phthalates (chemical level)
- 2.6. Printing inks, toners and varnishes (chemical level)
- 2.7. Toluene recovery from rotogravure printing (production line level)



- Essentially a 4 step process based on SDS.
- Applies horizontally (i.e. to all production line chemicals potentially remaining in final product).
- 0.10% threshold in final product or any component article

CRITERION 2: Assessment and verification

- As a minimum a list of all the relevant process and functional chemicals used by the applicant in relevant printing or converting processes must be screened. A list needs to be supported by safety data sheet and/or a declaration from the external supplier.
 - Declaration of the non-presence of SVHCs above 0,10%.
 - SDS supporting hazard classification or non-classification.
- I. (i) The substance's CAS, EC or list number.
 - II. (ii) The physical form and state in which the substance is used.
 - III. (iii) Harmonised CLP hazard classifications;.
 - IV. Self-classification entries in ECHA's REACH registered substance database.
 - V. Prove of compliance for each sub-criterion.

Declaration from applicant in UM:Part C-D Assessment and verification form (Declaration – Restricted substances list, Criterion 2.1.- 2.7).

Annex I: Declarations from **external** supplier suppliers.

[illegible]

Criterion 2- Part C and D: Application and Verification Form

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declarations- Restricted substances list, Criterion 2.1 – 2.7).

[illegible]

Criterion 2.2.

Restrictions based on CLP classification

Unless derogated in Table 1, the product, and any component articles therein, shall not contain substances or mixtures in concentrations greater than 0,10 % (weight by weight) that are assigned any of the following hazard classes, categories and associated hazard statement codes, in accordance with Regulation (EC) No 1272/2008:

- Group 1 hazards: Category 1A or 1B carcinogenic, mutagenic and/or toxic for reproduction (CMR): H340, H350, H350i, H360, H360F, H360D, H360FD, H360Fd, H360Df.
- Group 2 hazards: Category 2 CMR: H341, H351, H361, H361f, H361d, H361fd, H362; Category 1 aquatic toxicity: H400, H410; Category 1 and 2 acute toxicity: H300, H310, H330; Category 1 aspiration toxicity: H304; Category 1 specific target organ toxicity (STOT): H370, H372; Category 1 skin sensitiser: H317 (*).
- Group 3 hazards: Category 2, 3 and 4 aquatic toxicity: H411, H412, H413; Category 3 acute toxicity: H301, H311, H331; Category 2 STOT: H371, H373.

The use of substances or mixtures that are chemically modified during the production process, so that any relevant hazard for which the substance or mixture has been classified under Regulation (EC) No 1272/2008 no longer applies, shall be exempted from the above requirement.

Declaration from applicant in UM:Part C-D Assessment and verification form (Declaration – Restricted substances list, Criterion 2.2).

Derogated hazard class, category and hazard statement code and derogation conditions

Substance / mixture type	Applicability	Derogated hazard class, category and hazard statement code	Derogation conditions
Mineral oils and distillates	Heatset, coldset or digitally printed paper products	Aspiration hazard, category 1, H304	The applicant shall demonstrate to the Competent Body that all relevant instructions included in the safety data sheet regarding safe handling and storage and suitable exposure controls and personal protection are in place and declare that these are being complied with.
Nickel	Metal components	Skin sensitization, category 1, H317, Carcinogenicity, category 2, H351, Specific Target Organ Toxicity, repeated exposure, category 1, H372	The applicant must provide information to the consumer regarding the use of nickel for metal electroplating, coating or alloying.

Criterion 2.3 example - Part C and D: Application and Verification Form

2.3 — Biocidal products and biocidal active substances		← Menu	
WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE "ANSWERS/OPTIONS" COLUMN AND THE TABLE! (WHITE CELLS)			
		Answers / Options (to be filled by applicant)	NOTE (To be filled by applicant if needed)
I/we declare that Printed paper, stationery paper and paper carrier bag products are not treated with any biocidal products.			
If NO, is one of the following preservatives used? • in-can preservatives (i.e. biocidal product type 6: preservatives for products during storage) present in printing inks, varnishes, lacquers • preservatives used for liquid cooling and processing systems (i.e. biocidal product type 11) shall be permitted			
If preservatives of a group above are used, they meet the following conditions: • approval by Regulation (EU) No 528/2012 of the European Parliament and of the Council for product type 6 or product type 11 uses, as appropriate, • or, being under examination pending a decision on approval by Regulation (EU) No 528/2012 for product type 6 or product type 11 uses as appropriate.			
If preservatives of a group above are used, they also meet the following conditions: If the hazard statement code H410 or H411 (hazardous to the aquatic environment, chronic hazards, category 1 or 2) is assigned, the bioaccumulation potential (log Pow octanol/water partition coefficient) is < 3,0 or the bioconcentration factor (BCF) is ≤ 100.			
I/we declare that all biocidal products that have been used in the production process are declared in the list below.			

Product manufacturer should fill in the Declaration in annex 1 to the User Manual of Declaration 2.31

Example - UM Part C and D Application and Verification Form

Name the substance in the first column. Enter the nature of the substance, i.e. product type 6 or 11. Then, select YES if the substance is assigned the hazard statement code H410 or H411. Answer the questions for the Bioaccumulation factor and the Bioconcentration factor.

Name of Biocidal substan	Nature of use of the product (e.g. product type 6)	The substance is H410 or H411	If "H410" or Bioaccumulation Potential log Pow is <3.0	If "H410" or "H411" Bioconcentration factor (BCF) is <=100	Safety data sheets / Other declarations or test reports are added

To be completed by the applicant:

I, the undersigned, hereby declare the veracity of the above information and that the paper product complies with criterion 2.3.

Criterion 3. Recyclability

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 3).

Criterion 3.1. Removability of non-paper parts

Easy separation of non-paper components from paper components

Documentation

- A declaration issued by:
 - a product manufacturer or designer, or
 - paper collecting company, or
 - recycling company or an equivalent organization.
 - a list of non-paper materials used in a product.

Criterion 3.2. Repulpability;

- Wet strength agents shall not be used (except for wrapping paper and carrier bags)
- Lamination permitted only for durable products,

Double lamination should not be used

Documentation

- a declaration of the non-use of wet strength agents,
- a declaration of the non-use of lamination for newspapers, magazines, paper carrier bags, wrapping paper, or stationery paper products

Otherwise

- the result(s) of test report(s) according to the PTS method PTS-RH 021, the ATICELCA 501 evaluation system or equivalent standard
- for laminated products, the applicant shall provide a declaration of non-use of double lamination.

Criterion 3. Recyclability

Criterion 3.3. Adhesives removability

Unless otherwise specified, adhesives may be used only if their removability can be proven with a score of at least 71 on the EPRC Adhesive Removal Scorecard.

Pressure sensitive adhesive coatings shall be used only if their removability can be proven with at least a positive removability score according to the EPRC Adhesive Removal Scorecard.

The criterion does not apply to: (1) to adhesive labels if they constitute less than 0,50 % w/w of the final product (2) non-adhesive labels (3) water based adhesives

Adhesive applications listed in the Annex of the “Assessment of Printed Product Recyclability, Scorecard for the Removability of Adhesive Applications”, are considered compliant with the requirement.

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 3).

Annex I: Declarations from **external** supplier/s.

Documentation

- unless otherwise specified, results of the adhesives removability test according to INGEDE Method 12 or equivalent;
- for water-based adhesives a declaration of the water-based nature of the adhesive provided by the adhesive manufacturer or safety data sheet if it indicates that the adhesive is water - based.

Criterion 3. Recyclability

Criterion 3.4. Deinkability

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 3).

Annex I: Declarations from **external** supplier/s.

Documentation

- Printed-paper products: all individual parameters analyzed have a positive score and the final score is at least 51 on the EPRC Deinkability Scorecard, or equivalent.
- Envelopes: Deinkability test is not required
 - ✓ internal printing used only for the privacy reasons (paper with a grammage <135g/m², or opacity level < 98%).
 - ✓ internal printed surface <80% of the total interior surface minus the glued area and shall be printed with light colour shades.

- Results of deinking test according to INGEDE Method 11, or equivalent standard methods;
- Envelopes – specification of grammage according to UNE-EN ISO 536 or opacity according to ISO 2471, and colour of printing ink, and % coverage of any internal printing pattern.

Printing technologies and material combinations listed in the Annex of the “Assessment of Printed Product Recyclability, Deinkability Score” shall be considered compliant with the requirements.

Criterion 3.3 example – UM Part C and D: Application and Verification Form

3 – Recyclability			← Menu
WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE "ANSWERS/OPTIONS" COLUMN! (WHITE CELLS)			
	Answers / Options (to be filled by applicant)	NOTE (To be filled by applicant in case of need)	Use third party declaration (Annex 1 to the User Manual) where marked
This criterion applies to printed paper, stationery paper, and paper carrier bag products. If adhesive labels are used they shall prove compliance with the requirements if constituting of 0,50 % w/w or more of the final product. Non-adhesive labels are exempted from fulfilling the criteria.			
Solely water based adhesives are used. If yes: A safety data sheet indicating that the adhesive is water-based is added or a declaration of the water-based nature of the adhesive by the adhesive manufacturer is added.	<input type="text"/> <input type="text"/> <input type="text"/>		Adhesive manufacturer should fill in the Declaration 3.3. in annex 1 to the User Manual
If not exclusively water based adhesives are used: The adhesive applications used are listed in the Annex of the "Assessment of Printed Product Recyclability, Scorecard for the Removability of Adhesive Applications". If yes, compliance with the requirement is given and the following questions are not relevant.	<input type="text"/>		
Is a pressure sensitive adhesive coating used? PRESSURE-SENSITIVE ADHESIVE COATINGS Is a test result added according to INGEDE Method 12 or equivalent standard methods that are accepted by the competent body? Insert the achieved score according to the guidelines of the European Paper Recycling Council (EPRC).	<input type="text"/> <input type="text"/> Should be >0		
NON-PRESSURE-SENSITIVE ADHESIVE COATINGS Is a test result added according to INGEDE Method 12 or equivalent standard methods that are accepted by the competent body? Insert the achieved score according to the guidelines of the European Paper Recycling Council (EPRC).	<input type="text"/> <input type="text"/> Should be >=71		Adhesives manufacturer should fill in the Declaration 3.3. in annex 1 to the User Manual

Example - UM Part C and D:
Application and Verification
Form



Criterion 4. Emissions

Criterion 4.1. Emissions to water from rotogravure printing

The specific amount of Cr and Cu at the point of discharge must not exceed, respectively, 20 mg per m² and 200 mg per m² of printing cylinder surface area used in the press.

Documentation

Results of the analytical test EN ISO 11885 for Cr and Cu content at the point of discharge (after treatment and immediately prior to discharge) divided by the cylinder surface used in the press during the printing.

Calculation of chrome and copper discharge by printing cylinder surface

The cylinder surface ($2 \pi \cdot \text{Radius} \cdot \text{Length of the cylinder}$) is multiplied by the number of printing productions (=number of different printing jobs) during a year. Add the values needed to calculate the total cylinder surface. Then add up to twelve measurement values.

Chrome

Number of cylinders of same length	Radius of the cylinder [m]	Length of the cylinder [m]	No of printing productions during a year	Total cylinder surface [m ² /a]
				-
				-
				-
				-
				-
				-
				-

Values of each chrome measurement in waste water [mg/l]; add up to twelve

Mean value [mg/l]

Amount of waste water [m³] per year

Chrome emissions per m² printing cyl.

Copper

Number of cylinders of same length	Radius of the cylinder [m]	Length of the cylinder [m]	No of printing productions during a year	Total cylinder surface [m ² /a]
				-
				-
				-
				-
				-
				-
				-
				-

Values of each copper measurement in waste water [mg/l]; add up to twelve

Mean value [mg/l]

Amount of waste water [m³] per year

Copper emissions per m² printing cyl. surface

Example - UM Part C and D: Application and Verification Form

Criterion 4. Emissions

Criterion 4.2 —Emission from installations covered by Directive 2010/75/EU of the European Parliament and of the Council or equivalent installations

- Apply to printing processes covered by Annex I and VII to Directive 2010/75/EU or to equivalent printing processes outside the EU that meet specifications of Annex I and VII to Directive 2010/75/EU.
- In general: the criterion addresses installations with an organic solvent consumption capacity of more than 150 kg per hour or more than 200 tonnes per year

**Based on IED approach - VOCs Mass Balance
and/or TVOC measurement
Monitoring based on BAT 10 and 11 (STS BREF)**

Criterion 4.3 — VOCs emission from printing processes not covered by Directive 2010/75/EU of the European Parliament and of the Council

- Apply to printing processes not covered by Annex I or by Annex VII Part 2 to Directive 2010/75/EU or to equivalent printing processes outside the EU that do not meet specification of Annex I and VII to Directive 2010/75/EU.

Printing process /Parameter	Unit	EUEL threshold
Criterion 4.2		
Heatset web offset printing: SMB of Total VOC emissions or % of Fugitive emission (As an alternative to the BAT-AEL as specified in point 1. the BAT-AELs as specified in point 2 can be used)		
Total VOC emissions as calculated by the solvent mass balance	Kg VOCs per kg of ink input	0,03
Fugitive VOC emissions as calculated by the solvent mass balance	Percentage (%) of the solvent input	8
TVOC	mg C/Nm ³	12
Publication rotogravure printing		
Fugitive VOC emissions as calculated by the solvent mass balance	Percentage (%) of the solvent input	<
VOC	mg C/Nm ³	<1
Flexography and non – publication rotogravure printing (As an alternative to the BAT-AEL as specified in point 5. the BAT-AELs as specified in point 6 can be used)		
Total VOC emissions as calculated by the solvent mass balance	kg VOCs per kg of ink input	0,24
Fugitive VOC emissions as calculated by the solvent mass balance	Percentage (%) of the solvent input	9,6
TVOC	mg C/Nm ³	16
Criterion 4.3.		
Sheet fed offset printing;	VOC/tonne of paper	4,5
Digital printing	VOC/tonne of paper	1,0
Heat set web offset printing	VOC/tonne of paper	2,0
Cold set web offset printing	VOC/tonne of paper	2.5
Other rotogravure, flexography, rotary screen printing, laminating or varnishing units.	VOC/tonne of paper	3,0

Criterion 4.2 and 4.3 A&V

- UM – Part C&D Assessment and Verification form (Criterion 3)
- UM - Mass Balance calculator

Documentation

- ✓ A description of the abatement system in place.
- ✓ For publication rotogravure additional documentation related to the control and the monitoring of Cr(VI) emissions and test results related to the reduction of Cr(VI) emissions to the air.
- ✓ A declaration of the VOC content in, inks, washing agents, damping solutions or other corresponding chemical products.

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 4).

Annex I: Declarations from **external** supplier/s.

4	WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE "ANSWERS/OPTIONS" COLUMN! (WHITE CELLS)		
	Answers / Options (to be filled by applicant)	NOTE (To be filled by applicant in case of need)	Ur, de- ta- il- l- a- t- i- o- n
6			
10	Publication rotogravure printing facility covered by Directive 2010/75/EU		
11	The emissions of Chrome (VI) to air do not exceed 15 mg / tonne	YES	
12	A documentation on how to control and monitor the Chrome (VI) emissions is provided.	YES	
13	Test results related to the reduction of Chrome (IV) emissions to air are provided.	YES	
14			
15			
16			
18	Solvent mass balance		
19	The solvent mass balance is performed on a yearly basis and can be provided to the competent body upon request?	NO	
20			
22	Monitoring of total TVOC emissions to air in waste gases less than 10 kg C/h		
23	Stacks with TVOC load less than 10 kg C/h: The stacks are monitored at least once a year according to EN 12619, or equivalent?	YES	
24	Stacks with TVOC load less than 0.1 kg C/h (as annual average) or in the case of unabated and stable TVOC load of less than 0.3 kg C/h: The minimum monitoring frequency is once every three years or is replaced by a calculation provided that it ensures the provision of	YES	
25			
26	Monitoring of total TVOC emissions to air in waste gases equal or more than 10 kg C/h		
28	The monitoring is continuous according to EN 15267-1, EN 15267-2, EN 15267-3 and EN 14181?	Not relevant	
29	The data represents daily average over the period of one day based on valid hourly or half-hourly averages?		
30			
31			
32	Monitoring of abatement / Waste gas data		
34	The VOC destruction in the abatement system (e.g. thermal oxidation, adsorption to activated carbon) is determined, with a frequency of at least every three years, by combined measurements of VOC concentration in raw gas and clean gas?		
35	The measurement data of waste gas is registered and available upon request for the competent body?		
36			
37			
38			
39			

Example - UM Part C and D:
Application and Verification
Form



Criterion 4.2. and 4.3.

UM - Mass Balance calculator

Requirements overview

To see the related requirements, select a printing process under the scope and estimate the VOC solvent consumption per year.
If "none" appears as VOC solvent consumption threshold, requirements of the process apply independently from the VOC solvent

Select one or several printing processes

Enter estimated VOC solvent consumption [t/a]

VOC solvent consumption threshold

Related limits (either **PART A** or **PART B** below)

A - Covered by IED, or (for non-EU countries):
Requirements due to VOC solvent consumption

LIMIT OPTION 1

Limit for total VOC per ink input (solids in ink)

LIMIT OPTION 2

Limit for fugitive emissions related to VOC input
and limit for waste gas emission concentration

B - Not covered by IED

LIMIT OPTION 1

Limit for total VOC emission per paper input

LIMIT OPTION 2 (if off gas treatment is applied)

Limit for fugitive emissions related to VOC input
and limit for waste gas emission concentration

IN ADDITION TO OPTION 1 AND OPTION 2:

Off-gas treatment or water-based ink required
Off-gas treatment may apply solvent recovery,
thermal treatment or similar. As an alternative to
off-gas treatment, water-based inks can be used.

Flexography

150

15 t/a

PART A

0.24 kg VOC/kg ink solids

9.6 % of VOC solvent input
16 mg C/Nm³

Digital printing

4

-none-

PART B

1 kg VOC / t paper

-none-
-none-

NO

Heatset web offset printing

11

15 t/a

PART B

2 kg VOC / t paper

10 % of solvent input
20 mg C/Nm³

YES

FILL IN THE DECLARATION OF VERACITY BELOW

This page shows the result of the detailed mass balance according to the input values on the previous pages. The calculated values are compared with the limit values.
Compliance or non-compliance with the criteria is marked in green or red.

The numbers for input and output are listed in the "Details" part on the bottom of this page.

Fugitive VOC emissions (F) are determined by subtracting all non-fugitive output (O1, O5, O6, O7, O8) from the input (I1).

	Publication Rotogravure	Heatset web offset printing	Flexography	Non-pub. rotogravure	Sheet fed offset printing	Digital
Covered / Not covered by IE Directive	Below threshold	Below threshold	Below threshold	Below threshold	No IED installation	in
Result of VOC criterion		Not fulfilled				
Obligations when covered by IE Directive						
OPTION 1						
Total VOC emissions per solids in ink [kg/kg]		0.04				
Limit value for VOC emissions per solids in ink [kg/kg]		0.03	0.24	0.24		
OPTION 2						
Share of fugitive emissions [%]		91.2				
Limit value for fugitive emissions [%]	2.0	8.0	9.6	9.6		
Waste gas emissions [mg C/Nm ³]		2.00				
Limit value for waste gas emissions	16.00	12.00	16.00	16.00		
Obligations when not covered by IE Directive						
OPTION 1						
Total VOC emissions per paper [kg/t paper]						
► ...	2 Input VOC Solvents	3A a) Output Waste Gas	3A b) Output VOC Solvent Waste	4A+4B Recover		

Criterion 5 - Waste

- The facility where the product is manufactured shall have a system in place for the handling of waste.
- The amount of waste paper 'X' produced shall not exceed the indicated values.

Printing method	X (%)
Sheet offset	23
Cold-set, newspaper	10
Cold-set, form printing	18
Cold-set rotation (except newspapers)	19
Heat-set rotation	21
Rotogravure printing	15
Flexography printing	17
Digital printing	10
Screen printing	23
Product	
Envelopes	19
Writing stationery products, excluding diaries	15
Diaries and filing stationery products printed on one side	20
Filing stationery products printed on both sides	30
Paper bags and wrapping paper	11

X = annual tonnes of waste paper produced during the printing/manufacturing /annual tonnes of paper purchased for the production (*Calculation- UM Part C and D assessment and Verification Form*)

Criterion 5 – Waste A&V

Documentation

- UM Part C-D: Assessment and verification form
- A description of the procedures adopted for waste management for each site
- EU Eco-Management and Audit Scheme (EMAS) registration and/or certified according to ISO 14001 (if the inclusion of waste management is sufficiently addressed)

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 5).

5.1 – Waste management system		
A system for handling waste is in place at the facility where the ecolabel product is manufactured. It addresses and documents the measures taken to reduce the amount of waste (solid and liquid) including <ul style="list-style-type: none">• waste paper• ink waste• cleaning agent solution• and dampening solution waste as defined by local or national regulatory authorities	YES	
Is the company registered with EMAS or certified	NO	
If yes: The waste management for the production site(s) is documented in the company's EMAS environmental statement or the inclusion of waste management is sufficiently addressed	Not relevant	
IF NO, please answer the following questions:		
A waste management plan for each site is added?	YES	
A description of the procedures adopted for waste management is added?	YES	
Where the waste management is outsourced, a declaration of compliance by the sub contractor is added? (Select yes where outsourcing is applied in the following four questions)	YES	
Do you have instructions for waste handling, collection, separation and use of recyclable materials from the waste	YES	as internal instruction as outsourced service
Do you have informations on recovery of materials for other uses, such as incineration for raising process steam or heating or agricultural use?	YES	as internal instruction as outsourced service
Do you have informations on handling, collection, separation and disposal of hazardous waste, as defined by the relevant local and national regulatory authorities?	YES	as internal instruction as outsourced service
Do you have information on continuous improvement objectives and targets relating to the reduction of waste generation and the increase of reuse and recycling rates?	YES	as internal instruction as outsourced service

Criterion 6. Energy use

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 6).

- The site where the EU Ecolabel product is manufactured shall have established an energy management system addressing all energy consuming devices
- The energy management system shall include measures for the improvement of energy efficiency

Documentation – one of the following

- A description of the procedures adopted for the energy management
- Certification according to ISO 50001, EN 16247
- Registration with EU Eco-Management and Audit Scheme (EMAS)
- Certification according to ISO 14001

6 – Energy use	
WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE "ANSWERS/OPTIONS" COLUMN! (WHITE CELLS)	
Answers / Options (to be filled by applicant)	
The production site is certified according to ISO 50001, EN 16247 or an equivalent standard/scheme.	NO
The production site is EMAS registered. Energy management is documented in the EMAS environmental statement.	NO
The production site is certified to ISO 14001. The Energy Management Plan is sufficiently addressed by the certification.	NO
If none of the above statements apply, you have to comply with the following requirements:	
An energy management system is established that addresses all energy consuming devices (including machinery, lighting, air conditioning, cooling) and includes measures for the improvement of energy efficiency.	YES
The energy management system includes:	
• An energy data collection plan in order to identify key energy figures	YES
• Analysis of energy consumption: List of energy consuming systems, processes and facilities	YES
• Identification of measures for more efficient use of energy	YES
• Continuous improvement objectives and targets relating to the reduction of energy consumption	YES
A description of the energy management system is added.	YES

Criterion 7. Training

All relevant members of staff participating in the day-to-day operation of the production site shall be given the knowledge necessary to ensure that the Ecolabel requirements are fulfilled and continuously improved.

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 7).

Documentation

- A description of the training programme, its content, and an indication of which staff have received what training and when.
- A sample of training material.

WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE "ANSWERS/OPTIONS" COLUMN! (WHITE CELLS)

	Answers / Options (to be filled by applicant)	NOTE (To be filled by applicant in case of need)
7 – Training		
The relevant staff members are informed about Ecolabel requirements.	YES	
Details of the training programme (content, kind and time of training) are provided.	YES	
A sample of training material is provided to the competent body.	YES	

Example - UM Part C and D:
Application and Verification
Form

Criterion 8. Fitness for use

- The product shall be suitable for its purpose.
- For those cases when the quality certification is not available, other verification systems should be considered.

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 8).

Documentation – one of the following:

- Letter/document/statements issued by clients for a specific product that assures product quality
- Detailed description of procedure of handling consumer complaints;
- Certification, in accordance with the standard ISO 9001, or equivalent
- Product quality, in accordance with the standard EN ISO/IEC 17050-1,

7 – Training / 8 – Fitness for Use		
WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE "ANSWERS/OPTIONS" COLUMN! (WHITE CELLS)		
	Answers / Options (to be filled by applicant)	NOTE (To be filled by applicant in case of need)
(copy of the ID card shall be provided)		
8 – Fitness for use		
The product is suitable for its purpose.	YES	
At least one of the following documents is provided:		
• letter/document/statements issued by clients for a specific product, assuring that the product met their specifications and performs well in its intended application	YES	
• detailed description of the procedure how consumer complaints are handled		
• a documentation that is demonstrating the quality certification in accordance with the standard ISO 9001 (or equivalent)		
• documentation demonstrating the paper quality, in accordance with the standard EN ISO/IEC 17050-1, which provides general criteria for suppliers' declaration of conformity with standards		

Criterion 9 and 10. Information on the product and Information appearing on the EU Ecolabel

- The information indicated by Criterion 9 shall appear on the paper bag and printed paper product.
- The applicant shall follow the instructions on how to properly use the EU Ecolabel logo provided in the EU Ecolabel Logo Guidelines:
- If the optional label with text box is used, it shall contain the three statements mentioned in the criteria document. No other statements can be used in the box.

Declaration from applicant in UM: Part C-D Assessment and verification form (sheet: Declaration-Criterion 9 and 10).

Documentation

An image of the product packaging bearing the information required and, where relevant, the statements that can be displayed together with the label.

WARNING: THE APPLICANT MUST FILL ALL CELLS OF THE "ANSWERS/OPTIONS" COLUMN! (WHITE CELLS)		
	Answers / Options (to be filled by applicant)	NOTE (To be filled by applicant in case of need)
9 – Information on the product		
The information 'Please reuse this bag' appears on the paper bag product.		
The information 'Please collect used paper for recycling' appears on the printed paper product.		
An image of the product is provided to prove compliance with this criterion.		
10 – Information on the EU ecolabel		
The instructions on how to properly use the EU Ecolabel logo provided in the EU Ecolabel Logo Guidelines is followed.		
EU Ecolabel Logo Guidelines		
The optional label with text box is used and contains the following three statements: <ul style="list-style-type: none">• "low process emissions to air and water"• "the product is recyclable"• "paper with low environmental impact is used"		
A high resolution image of the product packaging is added, that shows: <ul style="list-style-type: none">• the label• the registration / licence number• the statements that are displayed together with the label (if relevant)		

Example - UM Part C and D:
Application and Verification
Form

Question/answers

The EU Ecolabel-Benefits for applicants

- Contributes to **improve the image of the company**: recognizes efforts to make sustainable products/services
- Contributes to **resource and monetary savings** (eg. in raw materials, water and energy consumption, reducing waste production, improving CO2 footprint etc)
- Contributes to the **growth of the company** and **job creation**
- Certifies that the product/service is **among the most environmentally-friendly in its class**
- Increases the **visibility of the product** on the market (the **EU Ecolabel logo** is recognised throughout Europe by millions of EU consumers)
- Featuring of the products and company on the **EU Ecolabel official catalogue** (<http://ec.europa.eu/ecat/>)
- Benefits from **marketing activities**, also undertaken by the EC and the national Competent Bodies (eg. collaboration with online retailers).
- Easier access to **GPP** (Green Public Procurement).



The EU Ecolabel-Benefits for consumers

- **Reliable third-party** certified label that can be trusted (covers all main environmental, health, social issues)
- **Guaranteed by a transparent** process for establishing the criteria
- A **Logo** easy to recognize
- It helps making **informed choices**.
- Allows to empower consumers to **choose green products** thus stirring the market of sustainable products in a **circular economy**.



How to apply for the EU Ecolabel?

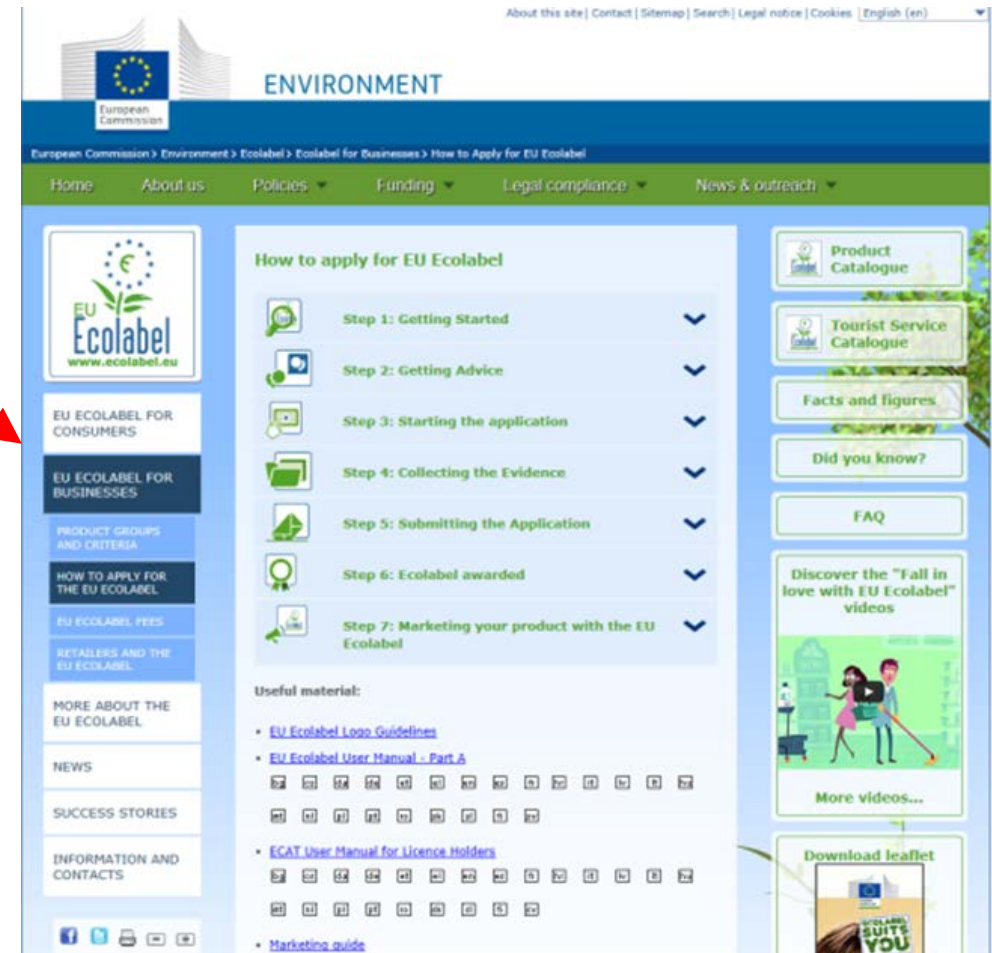
- Contact your National Competent Body
- Prepare technical dossier
- Register your product on ECAT
- Submit your application and pay fee
- Assessment of your application
- Award of a licence
- Communicate about your products/services!

Important links and contacts:

European Commission EU Ecolabel website:

<http://ec.europa.eu/environment/ecolabel/eu-ecolabel-for-businesses.html>

EC contact Email: EU-Ecolabel@ec.europa.eu





The EU Ecolabel is awarded to sustainably designed products, encouraging innovation, and contributing to the EU goal of climate neutrality by **2050** and to the **circular economy**.

Through the EU Ecolabel, industry can offer consumer an **eco-friendly alternative** to conventional paper products, and help them lower their daily environmental impact.

This product group covers:

- any printed paper product consisting of at least **90 %** by weight of paper, paperboard or paper-based substrates (**80%** for books, catalogues, booklets or forms)
- envelopes that consist of at least **90%** by weight of paper, paperboard or paper-based substrates
- paper carrier bags (including wrapping paper) consisting of **100 %** by weight of paper, paperboard or paper-based substrates
- stationery paper products (including filing products) consisting of at least **70 %** by weight of paper, paperboard or paper based substrates (except for suspension files and folders with metal fastener to which the threshold does not apply)



Stringent criteria, focusing on the main environmental impacts throughout the lifecycle of the products, ensure that EU Ecolabel printed paper, stationery paper and paper carrier bag products are among **the best on the market** in terms of environmental performance. Specifically, EU Ecolabel criteria:

- ensure that the manufacturing of paper-based products is carried out in a more sustainable way and fibres are sourced from sustainably managed forests or recycled materials
- restrict the use of hazardous substances
- increase products circularity by increasing their recyclability
- address emissions generated during the printing process
- reduce the quantity of paper waste generated in a process
- promote energy efficient manufacturing processes



Environment



Hotspots

EU Ecolabel Solution

Please see the full Ecolabel criteria for printed paper, stationery paper and paper carrier bag products Commission Decision (EU) 2020/1803 of 27 November 2020 : <https://eur-lex.europa.eu/eli/dec/2020/1803/oj>

1. Manufacturing

Sustainable raw materials:

- the paper substrate, including paperboard used in a final product bears the EU Ecolabel for "Graphic paper"

2. Manufacturing – hazardous substances

Restricted hazardous substances:

- all process chemicals used by the applicant in relevant printing or converting processes are screened
- all ingoing chemicals used in the production process, and any supplied materials forming part of the final product, do not contain certain hazardous substances
- biocidal products and biocidal active substances, cleaning agents, alkyl phenol ethoxylates –halogenated solvents –phthalates, printing inks, toners and varnishes, toluene recovery from rotogravure printing, have to comply with specific requirements

3. Manufacturing and end-of-life

Product circularity:

- non-paper parts of stationery paper product (e.g. metal bars or plastic covers) are easily removable not to hinder the recycling process
- the product is suitable for repulping
- adhesives may be used only if they are highly removable
- the printed paper product is highly drinkable

4. Manufacturing – emissions into water and air

Reduced emissions into water and air:

- the specific amount of Cr and Cu at the point of discharge from rotogravure printing does not exceed specific limits
- specific requirements on Volatile Organic Compounds (VOC) are met

5. Manufacturing – waste generation

Reduced waste generation:

- the facility where the product is manufactured has a system for handling waste in place - which addresses and documents the measures taken to reduce the amount of solid and liquid waste, including waste paper, ink waste, cleaning agent solution and dampening solution waste as defined by local or national regulatory authorities
- the amount of paper for recycling from manufacturing process does not exceed specified thresholds



For more information, visit www.ecolabel.eu

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Question/answers

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Eu Science Hub

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