COMMISSION DECISION

of *[date]*

establishing the EU Ecolabel criteria for hard surface cleaning products

(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 Eco-labelling 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 specific EU Ecolabel criteria are to be established for each product groups.

(3) Commission Decision 2011/383/EU[2], as amended by Commission Decision 2014/313/EU[3], has established the ecological criteria and the related assessment and verification requirements for all-purpose cleaners and sanitary cleaners, which are valid until 31 December 2016.

(4) In order to better reflect the state of the art of the market for this product group and take into account the innovation that has taken place during the intervening period, it is considered appropriate to establish a revised set of ecological criteria.

---

1 Regulation (EC) No 66/2010 of the European Parliament and of the Council of 25 November 2009 on the EU Ecolabel (OJ L 27, 30.1.2010, p. 1-19).

2 Commission Decision of 28 May 2014 amending Decisions 2011/263/EU, 2011/264/EU, 2011/382/EU, 2011/383/EU, 2012/720/EU and 2012/721/EU in order to take account of developments in the classification of substances (OJ L 169, 29.6.2011, p. 40-51).

3 Commission Decision of 28 May 2014 amending Decisions 2011/263/EU, 2011/264/EU, 2011/382/EU, 2011/383/EU, 2012/720/EU and 2012/721/EU in order to take account of developments in the classification of substances (OJ L 164, 3.6.2014, p. 74-82).

(5) The revised criteria, as well as the related assessment and verification requirements, should be valid for six years from the date of adoption of this Decision, taking into account the innovation cycle for this product group. These criteria aim at promoting products that have a reduced impact on aquatic ecosystems, contain a limited amount of hazardous substances, are effective, and minimise waste production by reducing packaging.

(6) Decision 2011/383/EU should be repealed.

(7) A transitional period should be allowed for producers whose products have been awarded the Ecolabel for hard all-purpose cleaners and sanitary cleaners on the basis of the criteria set out in Decision 2011/383/EU, so that they have sufficient time to adapt their products to comply with the revised criteria and requirements.

(8) The measures provided for in this Decision are in accordance with the opinion of the Committee established by Article 16 of Regulation (EC) No 66/2010,

HAS ADOPTED THIS DECISION:

Article 1

The product group 'hard surface cleaning products' shall comprise any all-purpose cleaner, kitchen cleaner, window cleaner or sanitary cleaner falling under the scope of Regulation (EC) No 648/2004[4] of the European Parliament and of the Council on detergents which is marketed and designed to be used as described below.

a) All-purpose cleaners shall include detergent products intended for the routine indoor cleaning of hard surfaces such as walls, floors and other fixed surfaces.

b) Kitchen cleaners shall include detergent products intended for the routine cleaning and degreasing of kitchen surfaces such as countertops, stovetops, kitchen sinks and kitchen appliance surfaces.

c) Window cleaners shall include detergent products intended for the routine cleaning of windows, glass and other highly polished surfaces.

d) Sanitary cleaners shall include detergents products intended for the routine removal, including by scouring, of dirt and/or deposits in sanitary facilities, such as laundry rooms, toilets, bathrooms and showers.

The product group shall cover products for both private and professional use and sold either in ready-to-use (to be used without dilution in water) or undiluted form. Products shall be mixtures of chemical substances.

Article 2

[4] Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (OJ L 104, 8.4.2004, p. 1-35).

For the purpose of this Decision, the following definitions shall apply:

(1) 'ingoing substances' means substances intentionally added, by-products and impurities from raw materials in the final product formulation (including water-soluble foil, if applicable).

(2) 'undiluted product' means a product that should be diluted in water prior to use.

(3) 'ready-to-use (RTU) product' means a product that should not be diluted in water before use.

(4) 'primary packaging' means:

- for single doses in a wrapper that is intended to be removed before use: the individual dose wrapping and the packaging conceived so as to constitute the smallest sales unit of distribution to the final user or consumer at the point of purchase, including label where applicable;
- for all other types of products: packaging conceived so as to constitute the smallest sales unit of distribution to the final user or consumer at the point of purchase, including label where applicable.

Article 3

In order to be awarded the EU Ecolabel under Regulation (EC) No 66/2010, a cleaning product shall fall within the product group ‘hard surface cleaning products’, as defined in Article 1 of this Decision and shall comply with the criteria as well as the related assessment and verification requirements set out in the Annex.

Article 4

The criteria for the product group ‘hard surface cleaning products’ and the related assessment and verification requirements shall be valid for six years from the date of adoption of this Decision.

Article 5

For administrative purposes the code number assigned to the product group ‘hard surface cleaning products’ shall be ‘020’.

Article 6

Decision 2011/383/EU is repealed.

Article 7

1. By derogation from Article 6, applications for the EU Ecolabel for products falling within the product group ‘hard surface cleaning products’ submitted before the date of adoption of this Decision shall be evaluated in accordance with the conditions laid down in Decision 2011/383/EU.

2. Applications for the EU Ecolabel for products falling within the product group ‘hard surface cleaning products’ submitted within two months from the date of adoption of this Decision may be based either on the criteria set out in Decision 2011/383/EU or on the criteria set out in this Decision. Those applications shall be evaluated in accordance with the criteria on which they are based.

3. EU Ecolabel licenses awarded in accordance with the criteria set out in Decision 2011/383/EU may be used for 12 months from the date of adoption of this Decision.

Article 8

This Decision is addressed to the Member States.

Done at Brussels,[]

For the Commission
Karmenu VELLA
Member of the Commission

ANNEX

EU ECOLABEL CRITERIA

FRAMEWORK

Criteria for awarding the EU Ecolabel to 'hard surface cleaning products'

CRITERIA

1. Toxicity to aquatic organisms
2. Biodegradability
3. Sustainable sourcing of palm oil, palm kernel oil and their derivatives
4. Excluded and restricted substances
5. Packaging
6. Fitness for use
7. User information
8. Information appearing on the EU Ecolabel

ASSESSMENT AND VERIFICATION

a) Requirements

The specific assessment and verification requirements are indicated within each criterion.

Where the applicant is required to provide declarations, documentation, analyses, test reports, or other evidence to show compliance with the criteria, these may originate from the applicant and/or their supplier(s), as appropriate.

Competent bodies shall preferentially recognise attestations which are issued by bodies accredited according to the relevant harmonised standard for testing and calibration laboratories and verifications by bodies that are accredited according to the relevant harmonised standard for bodies certifying products, processes and services. Accreditation must be carried out according to the provisions of the Regulation 765/2008[5] of the European Parliament and of the Council.

Where appropriate, test methods other than those indicated for each criterion may be used if the competent body assessing the application accepts their equivalence.

Where appropriate, competent bodies may require supporting documentation and may carry out independent verifications.

[5] Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products and repealing Regulation (EEC) No 339/93 (OJ L 218 13.8.2008 p.30)

As pre-requisite, the product shall meet all applicable legal requirements of the country or countries in which the product is intended to be placed on the market. The applicant shall declare the product's compliance with this requirement.

The "Detergent Ingredient Database" list (DID list), available on the EU Ecolabel website, contains the most widely used ingoing substances in detergents and cosmetics formulations. It shall be used for deriving the data for the calculations of the Critical Dilution Volume (CDV) and for the assessment of the biodegradability of the ingoing substances. For substances not present on the DID list, guidance is given on how to calculate or extrapolate the relevant data.

The following information shall be provided to the competent body:

The list of all ingoing substances indicating trade name (if existing), chemical name, CAS number, DID number, the ingoing quantity, the function and the form present in the final product formulation at or above the following concentrations:

- preservatives, fragrances and colouring agents - regardless of concentration,

- other ingoing substances - 0,010% weight by weight.

All ingoing substances present in the form of nanomaterials shall be clearly indicated in the list with the word ‘nano’ written in brackets.

For each ingoing substance listed, the SDS in accordance with Regulation (EC) No 1907/2006[6] of the European Parliament and of the Council shall be provided. Where an SDS is not available for a single substance because it is part of mixture, the applicant shall provide the SDS of the mixture.

b) Measurement thresholds

Compliance with the criteria is required for all ingoing substances as specified in Table 1.

Table 1 Threshold levels applicable to ingoing substances by criterion for hard surface cleaning products (weight by weight)

Criterion name		**Surfactants**	**Preservatives**	**Colouring agents**	**Fragrances**	**Other (e.g. enzymes)**
Toxicity to aquatic organisms		≥ 0,010	no limit*	no limit*	no limit*	≥ 0,010
Biodegradability	Surfactants	≥ 0,010	N/A	N/A	N/A	N/A
	Organics	≥ 0,010	no limit*	no limit*	no limit*	≥ 0,010
Sustainable sourcing of palm oil		≥ 0,010	N/A	N/A	N/A	≥ 0,010
Excluded or limited	Specified excluded and limited	no limit*	no limit*	no limit*	no limit*	no limit*

[6] Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 396, 30.12.2006, p. 1)

substances	subst.					
	Hazardous subst.	≥0,010	≥0,010	≥0,010	≥0,010	≥0,010
	SVHCs	no limit*	no limit*	no limit*	no limit*	no limit*
	Fragrances	N/A	N/A	N/A	no limit*	N/A
	Preserva-tives	N/A	no limit*	N/A	N/A	N/A
	Colouring agents	N/A	N/A	no limit*	N/A	N/A
	Enzymes	N/A	N/A	N/A	N/A	no limit*

* "no limit" means: regardless of the concentration, all substances intentionally added, by-products and impurities from raw materials (analytical limit of detection)

C) Single lot containing a product both in RTU and undiluted forms

If a product can be found both in RTU and undiluted form and both forms are sold as part of a single lot (e.g. one bottle of RTU product and a refill bottle of undiluted product), both types of products shall meet the requirements set out in all the criteria for their respective types, with the exception of Criterion 5 on Packaging, where the entire lot shall meet the requirements for undiluted products.

REFERENCE DOSAGE

The following dosage is taken as the reference dosage for the calculations aiming at documenting compliance with the EU Ecolabel criteria and for testing of cleaning ability:

Ready-to-use (RTU) products	1 litre of RTU product
Undiluted products	Highest dosage recommended by the manufacturer for preparing 1 litre of cleaning solution for cleaning normally soiled surfaces (indicated in g/l cleaning solution or ml/l cleaning solution)

Criterion 1 - Toxicity to aquatic organisms

The critical dilution volume (CDVchronic) of the product must not exceed the following limits for the reference dosage:

Product type	**Limit CDV (l/l cleaning solution)**
All-purpose cleaners, RTU	300 000
All-purpose cleaners, undiluted	18 000
Kitchen cleaners, RTU	700 000
Kitchen cleaners, undiluted	45 000
Window cleaners, RTU	48 000
Window cleaners, undiluted	4 800
Sanitary cleaners, RTU	700 000
Sanitary cleaners, undiluted	45 000

Assessment and verification: the applicant shall provide the calculation of the $CDV_{chronic}$ of the product. A spreadsheet for calculating of the $CDV_{chronic}$ value is available on the EU Ecolabel website.

The $CDV_{chronic}$ is calculated for all ingoing substances (i) in the product using the following equation:

$$CDV_{\text{chronic}} = \sum CDV(i) = 1000 \cdot \sum dosage(i) \cdot \frac{DF(i)}{TF_{\text{chronic}}(i)}$$

Where:

dosage(i): weight (g) of the substance i in the reference dose

DF(i): degradation factor for the substance i

$TF_{chronic}$(i): chronic toxicity factor for the substance i

The values of DF(i) and $TF_{chronic}$(i) shall be as given in the DID list Part A. If an ingoing substance is not included in the DID list Part A, the applicant shall estimate the values following the approach described in the DID list Part B and attaching the associated documentation.

Criterion 2 - Biodegradability

(a) Biodegradability of surfactants

All surfactants shall be readily degradable (aerobically).

All surfactants classified as hazardous to the aquatic environment according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council[7] shall be in addition anaerobically biodegradable.

(b) Biodegradability of organic compounds

The content of organic substances in the product that are aerobically non-biodegradable (not readily biodegradable, aNBO) or anaerobically non-biodegradable (anNBO) shall not exceed the following limits for the reference dosage:

Product type	**aNBO (g/l cleaning solution)**	**anNBO (g/l cleaning solution)**
All-purpose cleaners, RTU	3,00	55,00
All-purpose cleaners, undiluted	0,20	0,50
Kitchen cleaners, RTU	5,00	35,00
Kitchen cleaners, undiluted	0,20	0,50
Window cleaners, RTU	2,00	20,00
Window cleaners, undiluted	0,20	0,50
Sanitary cleaners, RTU	5,00	35,00
Sanitary cleaners, undiluted	0,20	0,50

Assessment and verification: the applicant shall provide documentation for the degradability of surfactants, as well as the calculation of aNBO and anNBO for the product. A spreadsheet for calculating aNBO and anNBO values is available on the EU Ecolabel website.

For both the degradability of surfactants and the aNBO and anNBO values for organic compounds, reference shall be made to the most updated DID list.

For ingoing substances which are not included in the DID list Part A, the relevant information from literature or other sources, or appropriate test results, showing that they are aerobically and anaerobically biodegradable shall be provided, as described in the Appendix 1 available on the EU Ecolabel website.

[7] Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31.12.2008, p. 1).

In the absence of documentation in accordance with the above requirements, an ingoing substance other than a surfactant may be exempted from the requirement for anaerobic degradability if one of the following three alternatives is fulfilled:

1. Readily degradable and has low adsorption (A < 25 %);
2. Readily degradable and has high desorption (D > 75 %);
3. Readily degradable and non-bioaccumulating.

Testing for adsorption/desorption may be conducted in accordance with OECD guidelines 106.

Criterion 3 - Sustainable sourcing of palm oil, palm kernel oil and their derivatives

Ingoing substances used in the products which are derived from palm oil or palm kernel oil shall be sourced from plantations that at least meet the requirements of a certification scheme for sustainable production that addresses environmental impacts, including on soil, biodiversity and organic carbon stocks.

Assessment and verification: the applicant shall provide third-party certification that the palm oil and palm kernel oil used in the manufacturing of the ingoing substances originates from sustainably managed plantations.

Certifications accepted shall include RSPO[8] (by identity preserved, segregated or mass balance) or any equivalent or stricter sustainable production scheme based on multi-stakeholder organizations that have a broad membership, including NGOs, industry and government.

For chemical derivatives of palm oil and palm kernel oil, it is acceptable to demonstrate sustainability through book and claim systems such as GreenPalm or equivalent by providing the ACOP[9] declared amounts of redeemed GreenPalm during the most recent annual trading period.

Criterion 4 - Excluded and restricted substances

(a) Specified excluded and restricted substances

(i) Excluded substances

The substances indicated below shall not be included in the product formulation regardless of concentration:

- Alkyl phenol ethoxylates (APEOs) and other alkyl phenol derivatives
- Atranol

[8] Roundtable for sustainable palm oil

[9] Annual Communications Of Progress

- Chloroatranol

- Diethylenetriaminepentaacetic acid (DTPA)

- Ethylenediaminetetraacetic acid (EDTA) and its salts

- Formaldehyde and its releasers (e.g. 2-bromo-2-nitropropane-1,3-diol, 5-bromo-5-nitro-1,3-dioxane, sodium hydroxyl methyl glycinate, diazolinidyl urea) with the exception of impurities of formaldehyde in non-ionic surfactants up to a concentration of 0,01% weight by weight in the ingoing substance

- Hydroxyisohexyl 3-cyclohexene carboxaldehyde (HICC)

- Microplastics

- Nanosilver

- Nitromusks and polycyclic musks

- Phosphates

- Per-fluorinated alkylates

- Quaternary ammonium salts not readily biodegradable

- Reactive chlorine compounds

- Triclosan

- Aromatic solvents

- Halogenated solvents

Assessment and verification: the applicant shall provide a signed declaration of compliance supported by declarations from suppliers, if appropriate, confirming that the listed substances have not been included in the product formulation regardless of concentration.

(ii) Restricted substances

The substances listed below shall not be included in the product formulation above the concentrations indicated:

- 2-methyl-2H-isothiazol-3-one: 0,0050 % weight by weight

- 1,2-Benzisothiazol-2(2H)-one: 0,0050 % weight by weight

- 5-chloro-2-methyl-4-isothiazolin-3-one/2- methyl-4-isothiazolin-3-one: 0,0015 % weight by weight

- the total phosphorus (P) content calculated as elemental P shall be limited to the following values for the reference dosage:

Product type	**P content** **(gP/l cleaning solution)**

All-purpose cleaners, RTU	2,00
All-purpose cleaners, undiluted	0,02
Kitchen cleaners, RTU	10,00
Kitchen cleaners, undiluted	1,00
Window cleaners, RTU	0,00
Window cleaners, undiluted	0,00
Sanitary cleaners, RTU	10,00
Sanitary cleaners, undiluted	1,00

- fragrance substances subject to the declaration requirement provided in Regulation (EC) No 648/2004 shall not be present in quantities ≥ 0,010 % weight by weight per substance

- VOCs** shall not be present above the limits specified below:

Product type	**VOC limit (weight by weight)**
All-purpose cleaners, RTU	≤ 6%
All-purpose cleaners, undiluted	≤ 0,2% in the final dilution
Kitchen cleaners, RTU	≤ 6%
Kitchen cleaners, undiluted	≤ 0,2% in the final dilution
Window cleaners, RTU	≤ 10%
Window cleaners, undiluted	--
Sanitary cleaners, RTU	≤ 6%
Sanitary cleaners, undiluted	≤ 0,2% in the final dilution

**VOCs means any organic compound having a boiling point lower than 150C

Assessment and verification: the applicant shall provide:

- a signed declaration of compliance supported by declarations from suppliers, if appropriate, confirming that the total amount of elemental P is equal to or lower than the set limits. The declaration shall be supported by the calculations of the product's total P-content.

- a signed declaration of compliance supported by declarations or documentation from suppliers, if appropriate, confirming that the fragrance substances subject to the declaration requirement provided in Detergent Regulation (EC) No 684/2004 are not present above the set limits.

- a signed declaration of compliance supported by declarations from the suppliers, if appropriate, confirming that the total amount of VOCs is below the set limits. This declaration shall be supported by test reports or calculations of the VOC content based on the list of ingredients.

- if isothiazolinones are used, a signed declaration of compliance supported by declarations from suppliers, if appropriate, confirming that the content of isothiazolinones used is equal to or lower than the set limits.

(b) Hazardous substances

(i) Final product

The final product shall not be classified and labelled as being acutely toxic, a specific target organ toxicant, a respiratory or skin sensitiser, carcinogenic, mutagenic or toxic for reproduction, or hazardous to the environment, as defined in Annex I Regulation (EC) No 1272/2008.

(ii) Ingoing substances

The product shall not contain ingoing substances meeting the criteria for classification as toxic, hazardous to the environment, respiratory or skin sensitizers, carcinogenic, mutagenic or toxic for reproduction in accordance with Annex I of Regulation (EC) No 1272/2008 and as interpreted according to the hazard statements listed in Table 22.

Any ingoing substance present at a concentration above 0,010% weight by weight in the product shall meet this requirement. Where stricter, the generic or specific concentration limits determined in accordance with Article 10 of Regulation (EC) No 1272/2008 shall prevail to the cut-off limit value of 0,010% weight by weight.

Table 22 Restricted hazard classifications and their categorisation

Acute toxicity	
Category 1 and 2	**Category 3**
H300 Fatal if swallowed	H301 Toxic if swallowed
H310 Fatal in contact with skin	H311 Toxic in contact with skin
H330 Fatal if inhaled	H331 Toxic if inhaled
H304 May be fatal if swallowed and enters airways	EUH070 Toxic by eye contact

Specific target organ toxicity	
Category 1	**Category 2**
H370 Causes damage to organs	H371 May cause damage to organs
H372 Causes damage to organs through prolonged or repeated exposure	H373 May cause damage to organs through prolonged or repeated exposure
Respiratory and skin sensitisation	
Category 1A	**Category 1B**
H317: May cause allergic skin reaction	H317: May cause allergic skin reaction
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
Carcinogenic, mutagenic or toxic for reproduction	
Category 1A and 1B	**Category 2**
H340 May cause genetic defects	H341 Suspected of causing genetic defects
H350 May cause cancer	H351 Suspected of causing cancer
H350i May cause cancer by inhalation	
H360F May damage fertility	H361f Suspected of damaging fertility
H360D May damage the unborn child	H361d Suspected of damaging the unborn child
H360FD May damage fertility. May damage the unborn child	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child
H360Fd May damage fertility. Suspected of damaging the unborn child	H362 May cause harm to breast fed children
H360Df May damage the unborn child. Suspected of damaging fertility	
Hazardous to the aquatic environment	
Category 1 and 2	**Category 3 and 4**
H400 Very toxic to aquatic life	H412 Harmful to aquatic life with long-lasting

	effects
H410 Very toxic to aquatic life with long-lasting effects	H413 May cause long-lasting effects to aquatic life
H411 Toxic to aquatic life with long-lasting effects	
Hazardous to the ozone layer	
H420 Hazardous to the ozone layer	

The most recent classification rules adopted by the Union shall take precedence over the listed hazard classifications in accordance with Article 15 of Regulation (EC) No 1272/2008.

This criterion does not apply to ingoing substances covered by Article 2(7)(b) of the Regulation (EC) No 1907/2006 which sets out criteria for exempting substances within Annex V from the registration, downstream user and evaluation requirements. In order to determine if this exclusion applies, the applicant shall screen any ingoing substance present at a concentration above 0,010% weight by weight.

Substances and mixtures included in Table 33 are exempted from this requirement.

Table 33 Derogated substances

Substance	**Hazard statement**
Surfactants	H400: Very toxic to aquatic life
	H412: Harmful to aquatic life with long-lasting effects
Enzymes(*)	H317: May cause allergic skin reaction
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
NTA as an impurity in MGDA and GLDA (**)	H351: Suspected of causing cancer

(*) Including stabilisers and other auxiliary substances in the preparations

(**) In concentrations lower than 0,2 % in the raw material as long as the total concentration in the final product is lower than 0,10 %.

Assessment and verification: the applicant shall demonstrate compliance with this criterion for the final product and for any ingoing substance present at a concentration greater than 0,010 % weight by weight in the final product. The applicant shall provide a signed declaration of compliance supported by declarations from suppliers, if appropriate, or Safety Data Sheets (SDS) confirming that none of these substances meets the criteria for

classification with one or more of hazard statements listed in Table 22 in the form(s) and physical state(s) they are present in the product.

For substances listed in Annexes IV and V to Regulation (EC) No 1907/2006, which are exempted from registration obligations under point (a) and (b) of Article 2(7) of that Regulation, a declaration to this effect by the applicant shall suffice to comply.

The applicant shall provide a signed declaration of compliance supported by declarations from suppliers, if appropriate, or Safety Data Sheets (SDS) confirming the presence of ingoing substances that fulfil the derogation conditions.

(c) Substances of very high concern (SVHCs)

The final product shall not contain any ingoing substances that have been identified according to the procedure described in Article 59(1) of Regulation (EU) No 1907/2006, which establishes the candidate list for substances of very high concern.

Assessment and verification: the applicant shall provide a signed declaration of compliance supported by declarations from their suppliers, if appropriate, or Safety Data Sheets (SDS) confirming the non-presence of all the candidate list substances.

Reference to the latest list of substances of very high concern shall be made on the date of application.

(d) Fragrances

Any ingoing substance added to the product as a fragrance shall be manufactured and handled following the code of practice of the International Fragrance Association (IFRA) available at http://www.ifraorg.org. The recommendations of the IFRA Standards concerning prohibition, restricted use and specified purity criteria for substances shall be followed by the manufacturer.

Assessment and verification: the supplier or fragrance manufacturer, as appropriate, shall provide a signed declaration of compliance.

(e) Preservatives

(i) The product may only include preservatives in order to preserve the product, and in the appropriate dosage for this purpose alone. This does not refer to surfactants which may also have biocidal properties.

(ii) The product may contain preservatives provided that they are not bio-accumulating. A preservative is considered to be not bio-accumulating if BCF < 100 or log K_{ow} < 3,0. If both BCF and log K_{ow} values are available, the highest measured BCF value shall be used.

(iii) It is prohibited to claim or suggest on the packaging or by any other communication that the product has an antimicrobial or disinfecting effect.

Assessment and verification: the applicant shall provide a signed declaration of compliance supported by declarations from suppliers, if appropriate, along with the SDS of any preservative added and information on its BCF and/or log K_{ow} values. The applicant shall also provide artwork of the packaging.

(f) Colouring agents

Colouring agents in the product shall not be bio-accumulating.

A colouring agent is considered not bio-accumulating if BCF < 100 or log K_{ow} < 3,0. If both BCF and log K_{ow} values are available, the highest measured BCF value shall be used. In the case of colouring agents approved for use in food, it is not necessary to submit documentation of bio-accumulation potential.

Assessment and verification: the applicant shall provide a signed declaration of compliance supported by declarations from suppliers, if appropriate, along with the SDS of any colouring agent added and information on its BCF and/or log K_{ow} value, or documentation to ensure that the colouring agent is approved for use in food.

(g) Enzymes

Only enzyme encapsulates (in solid form) and enzyme liquids/slurries shall be used.

Assessment and verification: the applicant shall provide a signed declaration of compliance supported by declarations from suppliers, if appropriate, along with the SDSof any enzyme added.

Criterion 5 – Packaging

(a) Products sold in spray bottles

Sprays containing propellants shall not be used. Spray bottles shall be refillable and reusable.

Assessment and verification: the applicant shall provide a signed declaration of compliance along with relevant documentation describing or demonstrating how the spray bottles that are part of the packaging can be refilled.

(b) Bulk packaging and take-back systems

If the applicant offers bulk delivery and/or packaging that is part of a take-back system for a product, that product is exempted from the requirements set out in Criteria 5(c), 5(d) and 5(e).

Assessment and verification: the applicant shall provide a signed declaration of compliance along with relevant documentation describing or demonstrating that deliveries are made in bulk or that a take-back system has been put in place.

(c) Weight/utility ratio (WUR)

The weight/utility ratio (WUR) of the product shall be calculated for the primary packaging only and shall not exceed the following values for the reference dosage:

Product type	**WUR (g/l cleaning solution)**
Undiluted products	15
RTU products	150
RTU products sold in bottles with trigger sprays	200

Primary packaging containing more than 80 % of recycled materials is exempted from this requirement.

Assessment and verification: the applicant shall provide the calculation of the WUR of the product. If the product is sold in different packaging (i.e. with different volumes), the calculation shall be submitted for each packaging size for which the EU Ecolabel shall be awarded.

The WUR is calculated as follows:

$$WUR = \sum((W_i + U_i)/(D_i * R_i)$$

Where:

W_i: weight (g) of the primary packaging (i),

U_i: weight (g) of non-recycled packaging in the primary packaging (i). $U_i = W_i$ unless the applicant can document otherwise,

D_i: number of reference doses contained in the primary packaging (i),

R_i: number of times that the primary packaging (i) can be refilled and used for the same purpose. $R_i = 1$ (packaging is not reused for the same purpose) unless the product is sold as part of a lot containing refills and the EU Ecolabel shall be awarded to the lot.

The applicant shall provide a signed declaration of compliance confirming the content of recycled material, along with relevant documentation. Packaging is regarded as recycled if the raw material used to make the packaging has been collected from packaging manufacturers at the distribution stage or at the consumer stage. Where the raw material is industrial waste from the material manufacturer's own production process, then the material will not be regarded as recycled.

(d) Design for recycling

Plastic packaging shall be designed to facilitate effective recycling by avoiding potential contaminants and incompatible materials that are known to impede separation or reprocessing or to reduce the quality of recyclate. The label or sleeve, closure and, where applicable,

barrier coatings shall not comprise, either singularly or in combination the materials and components listed in Table 4 4. Pumps are exempted from this requirement.

Table 4 4 Materials and components excluded from packaging elements

Packaging element	Excluded materials and components*
Label or sleeve	- PS label or sleeve in combination material used with a PET, PP or HDPE bottle - PVC label or sleeve in combination with a PET, PP or HDPE bottle - PETG label or sleeve in combination with a PET bottle - Any other plastic materials for sleeves/labels used with PET bottle with a density > 1 - Any other plastic materials for sleeves/labels used with PP or HDPE bottle with a density < 1 - Labels or sleeves that are metallised or are welded to a packaging body (in mould labelling)
Closure	- PS closure in combination a with a PET, HDPE or PP bottle - PVC closure in combination with a PET, PP or HDPE bottle - PETG closures and/or closure material with density of above 1 g/cm3 in combination with a PET bottle - Closures made of metal, glass, EVA - Closures made of silicone. Exempted are silicone closures with a density < 1 g/cm^3 in combination with a PET bottle and silicone closures with a density > 1g/cm^3 in combination with PEHD or PP bottle - Metallic foils or seals which remain fixed to the bottle or its closure after the product has been opened
Barrier coatings	Polyamide, functional polyolefins, metallised and light blocking barriers

* EVA – Ethylene Vinyl Acetate, HDPE – High-density polyethylene, PET – Polyethylene terephtalate, PETG – Polyethylene terephthalate glycol-modified, PP – Polypropylene, PS – Polystyrene, PVC – Polyvinylchloride

Assessment and verification: the applicant shall provide a signed declaration of compliance specifying the material composition of the packaging including the container, label or sleeve, adhesives, closure and barrier coating, as appropriate, along with photos or technical drawings of the primary packaging.

(e) Design for dosing

A convenient dosing system (e.g. caps, capsules/tablets, spray actuations, high viscosity drops) shall be made available to the users as part of the packaging.

Assessment and verification: the applicant shall provide a signed declaration of compliance with a description of the dosing system and its use, along with photos or technical drawings of the primary packaging.

Criterion 6 - Fitness for use

The product shall have a satisfactory cleaning performance at the lowest temperature and dosage recommended by the manufacturer for the water hardness according to the "Framework for testing the performance of hard surface cleaners" available at:

http://ec.europa.eu/environment/ecolabel/documents/performance_test_cleaners.pdf

Assessment and verification: the applicant shall provide documentation demonstrating that the product has been tested under the conditions specified in the framework and that the results passed the minimum cleaning performance required. The applicant shall also provide documentation demonstrating compliance with the laboratory requirements included in the relevant harmonized standards for testing and calibration laboratories, if appropriate.

An equivalent test performance may be used if equivalence has been assessed and accepted by the competent body.

Criterion 7 - User information

The product shall be accompanied by instructions for proper use so as to maximise product performance and minimise waste, reduce water pollution and use of resources. These instructions shall be legible or include graphical representation or icons and include information on:

(a) List of ingredients

In addition to the ingredients listed in accordance with Regulation (EC) No 648/2004, all ingredients present in the form of nanomaterials. The name of such ingredients shall be followed by the word "nano" in brackets.

(b) Dosing instructions

The applicant shall make available a convenient dosage system (e.g. caps, capsules/tablets, spray actuations, high viscosity drops) as required in Criterion 5(e).

Dosage instructions shall include the recommended dosage for at least two levels of soiling and, if applicable, the impact of the water hardness on the dosing.

If applicable, indications of the most prevalent water hardness in the area where the product is intended to be marketed or where this information can be found shall be provided.

(c) Resource saving measures

An indication on the primary packaging shall encourage users to use the lowest appropriate temperature the product claims effectiveness and the lowest appropriate amount of water .

(d) Packaging disposal information

The primary packaging shall include information on the reuse, recycling and correct disposal of packaging.

(e) Environmental information

The following text should appear on the primary packaging: "All cleaning product have an effect on the environment. For maximum effectiveness always use the correct dose and, the lowest recommended temperature. This will minimize both energy and water consumption and reduce water pollution".

Assessment and verification: the applicant shall provide a signed declaration of compliance along with a sample of the product label.

Criterion 8 - Information appearing on the EU Ecolabel

The logo should be visible and legible. The EU Ecolabel registration/licence number shall appear on the product and it shall be legible and clearly visible.

The applicant may choose to include an optional text box on the label that contains the following text:

— Harm to aquatic life is limited

— Amount of hazardous substances is restricted

— Tested for cleaning performance

Assessment and verification: the applicant shall provide a signed declaration of compliance along with a sample of the product label or an artwork of the packaging where the EU Ecolabel is placed.