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COMMISSION DECISION (EU) 2017/1215

of 23 June 2017

establishing the EU Ecolabel criteria for industrial and institutional dishwasher detergents

(notified under document C(2017) 4228)

(Text with EEA relevance)

(OJ L 180, 12.7.2017, p. 16)

Amended by:

		Official Journal		
		No	page	date
►**M1**	Commission Decision (EU) 2018/993 of 11 July 2018	L 177	14	13.7.2018

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COMMISSION DECISION (EU) 2017/1215

of 23 June 2017

establishing the EU Ecolabel criteria for industrial and institutional dishwasher detergents

(notified under document C(2017) 4228)

(Text with EEA relevance)

Article 1

The product group 'industrial and institutional dishwasher detergents' shall comprise any dishwasher detergent, rinse or pre-soak agent falling under the scope of Regulation (EC) No 648/2004 of the European Parliament and of the Council [1] which is marketed and designed to be used by specialised personnel in professional dishwashers.

This product group includes multi-component systems comprised of more than one component used to build up a complete detergent. Multi-component systems may incorporate a number of products such as pre-soak and rinsing agents, and they shall be tested as a whole.

This product group shall not comprise dishwasher detergents designed for household dishwashers, detergents intended to be used in washers of medical devices or in special machines for the food industry.

Sprays not dosed via automatic pumps are excluded from this product group.

Article 2

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 used)];

(2) 'primary packaging' means:

(a) 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;

(b) 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;

[1] 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).

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(3) ‘microplastic’ means particles with a size of below 5 mm of insoluble macromolecular plastic, obtained through one of the following processes:

(a) a polymerisation process such as e.g. polyaddition or polycondensation or a similar process using monomers or other starting substances;

(b) chemical modification of natural or synthetic macromolecules;

(c) microbial fermentation;

(4) ‘nanomaterial’ means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1-100 nm ([1]).

Article 3

In order to be awarded the EU Ecolabel under Regulation (EC) No 66/2010, a dishwasher detergent shall fall within the product group ‘industrial and institutional dishwasher detergents’, 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 ‘industrial and institutional dishwasher detergents’ and the related assessment and verification requirements shall be valid for six years from the date of notification of this Decision.

Article 5

For administrative purposes the code number assigned to the product group ‘industrial and institutional dishwasher detergents’ shall be ‘038’.

Article 6

Decision 2012/720/EU is repealed.

Article 7

1. By derogation from Article 6, applications for the EU Ecolabel for products falling within the product group ‘industrial and institutional dishwasher detergents’ submitted before the date of notification of this Decision shall be evaluated in accordance with the conditions laid down in Decision 2012/720/EU.

([1]) Commission Recommendation 2011/696/EU of 18 October 2011 on the definition of nanomaterial (OJ L 275, 20.10.2011, p. 38).

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2. Applications for the EU Ecolabel for products falling within the product group ‘industrial and institutional automatic dishwasher detergents’ submitted within two months from the date of notification of this Decision may be based either on the criteria set out in Decision 2012/720/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.

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3. EU Ecolabel licenses awarded in accordance with the criteria set out in Decision 2012/720/EU may be used until 26 December 2018.

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Article 8

This Decision is addressed to the Member States.

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ANNEX

FRAMEWORK

EU ECOLABEL CRITERIA

Criteria for awarding the EU Ecolabel to industrial and institutional dishwasher detergents

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. Automatic dosing systems

8. User information

9. 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 to the competent bodies with 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 in accordance with the relevant harmonised standard for testing and calibration laboratories and verifications by bodies that are accredited in accordance with the relevant harmonised standard for bodies certifying products, processes and services. Accreditation shall be carried out in accordance with Regulation (EC) No 765/2008 of the European Parliament and of the Council ([1]).

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 or site visits.

As a pre-requisite, the product shall meet all respective 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

([1]) 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).

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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 list of all ingoing substances shall be provided to the competent body, indicating the trade name (if existing), the chemical name, the CAS No, the DID No, the ingoing quantity, the function and the form present in the final product formulation (including water-soluble foil, if used).

Preservatives and colouring agents shall be indicated regardless of concentration. Other ingoing substances shall be indicated at or above the concentration of 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 Safety Data Sheets (SDS) in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council ([1]) shall be provided. Where an SDS is not available for a single substance because it is part of a mixture, the applicant shall provide the SDS of the mixture.

(b) **Measurement thresholds**

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

Table 1

Threshold levels applicable to ingoing substances by criterion for industrial and institutional dishwasher detergents (% weight by weight)

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

([1]) 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (OJ L 396, 30.12.2006, p. 1).

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Criterion name		Surfactants	Preservatives	Colouring agents	Other (e.g. enzymes)
	Preservatives	N/A	no limit (*)	N/A	N/A
	Colouring agents	N/A	N/A	no limit (*)	N/A
	Enzymes	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)

REFERENCE DOSAGE

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

The highest dosage recommended by the manufacturer to produce 1 litre of washing solution (indicated in g/l of washing solution or ml/l of washing solution) for three degrees of water hardness (soft, medium, hard).

Assessment and verification: the applicant shall provide the product label or user instruction sheet that includes the dosing instructions.

Criterion 1 — Toxicity to aquatic organisms

The critical dilution volume ($CDV_{chronic}$) of the product shall not exceed the following limits for the reference dosage.

Product type / Water hardness	Soft (< 1,5 mmol $CaCO_3$/l) (l/l of washing solution)	Medium (1,5-2,5 mmol $CaCO_3$/l) (l/l of washing solution)	Hard (> 2,5 mmol $CaCO_3$/l) (l/l of washing solution)
Pre-soaks	2 000	2 000	2 000
Dishwasher detergents	3 000	5 000	7 000
Multi-component systems	3 000	4 000	5 000
Rinse aids	3 000	3 000	3 000

Assessment and verification: the applicant shall provide the calculation of the $CDV_{chronic}$ of the product. A spreadsheet for calculating 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:

$$CDV_{\text{chronic}} = \sum CDV(i) = 1\,000 \cdot \sum dosage(i) \cdot \frac{DF(i)}{TF_{\text{chronic}}(i)}$$

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 most updated Part A of the DID list. If an ingoing substance is not included in the Part A, the applicant shall estimate the values following the approach described in the Part B of that list and attaching the associated documentation.

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Criterion 2 — Biodegradability

(a) *Biodegradability of surfactants*

All surfactants shall be readily degradable (aerobically).

All surfactants classified as hazardous to the aquatic environment: Acute Category 1 (H400) or Chronic Category 3 (H412), in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council ([1]) 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:

aNBO (g/l of washing solution)

Water hardness \ Product type	Soft < 1,5 mmol $CaCO_3$/l	Medium 1,5-2,5 mmol $CaCO_3$/l	Hard > 2,5 mmol $CaCO_3$/l
Pre-soaks	0,40	0,40	0,40
Dishwasher detergents/Multi-component system	0,40	0,40	0,40
Rinse aids	0,04	0,04	0,04

anNBO (g/l of washing solution)

Water hardness \ Product type	Soft < 1,5 mmol $CaCO_3$/l	Medium 1,5-2,5 mmol $CaCO_3$/l	Hard > 2,5 mmol $CaCO_3$/l
Pre-soaks	0,40	0,40	0,40
Dishwasher detergents/Multi-component system	0,60	1,00	1,00
Rinse aids	0,04	0,04	0,04

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 that are not included in Part A of the DID list, 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 Part B of that list.

In the absence of documentation for degradability described above, 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]) 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).

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(1) it is readily degradable and has low adsorption (A < 25 %);

(2) it is readily degradable and has high desorption (D > 75 %);

(3) it is readily degradable and non-bioaccumulating ([1]).

Testing for adsorption/desorption shall be conducted in accordance with OECD Guideline 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 meet the requirements of a certification scheme for sustainable production that is based on multi-stakeholder organizations that has a broad membership, including NGOs, industry and government and that addresses environmental impacts including on soil, biodiversity, organic carbon stocks and conservation of natural resources.

Assessment and verification: The applicant shall provide evidence through third-party certificates and chain of custody that palm oil and palm kernel oil used in the manufacturing of the ingoing substances originates from sustainably managed plantations.

Certificates accepted shall include Roundtable for Sustainable Palm Oil (RSPO) (by identity preserved, segregated or mass balance) or any equivalent or stricter sustainable production scheme.

For chemical derivatives of palm oil and for palm kernel oil, it shall be acceptable to demonstrate sustainability through book and claim systems such as GreenPalm certificates or equivalent by providing the Annual Communications of Progress (ACOP) declared amounts of procured and redeemed GreenPalm certificates 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;

— 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, diazolidinylurea) with the exception of impurities of formaldehyde in surfactants based on polyalkoxy chemistry up to a concentration of 0,010 % weight by weight in the ingoing substance;

— Glutaraldehyde;

— Hydroxyisohexyl 3-cyclohexene carboxaldehyde (HICC);

— Microplastics;

([1]) A substance is considered to be not bio-accumulating if the BCF is < 100 or log Kow is < 3,0. If the both BCF and log Kow values are available, the highest measured BCF value shall be used.

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— Nanosilver;

— Nitromusks and polycyclic musks;

— Per-fluorinated alkylates;

— Quaternary ammonium salts not readily biodegradable;

— Reactive chlorine compounds;

— Rhodamine B;

— Triclosan;

— 3-iodo-2-propynyl butylcarbamate.

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.

(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-3(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:

Product type (in g/l of washing solution)	Water hardness (mmol $CaCO_3$/l)		
	Soft (< 1,5)	Medium (1,5-2,5)	Hard (> 2,5)
Pre-soaks	0,08	0,08	0,08
Dishwasher detergents	0,15	0,30	0,50
Rinse aids	0,02	0,02	0,02
Multicomponent system	0,17	0,32	0,52

Assessment and verification: the applicant shall provide the following documents:

(a) 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 limits set;

(b) 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 limits set. The declaration shall be supported by the calculations of the product's total P-content.

(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 aquatic environment, as defined in Annex I to Regulation (EC) No 1272/2008 and in accordance with the list in Table 2.

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(ii) Ingoing substances

The product shall not contain ingoing substances at a concentration limit at or above 0,010 % weight by weight in the final product that meet the criteria for classification as toxic, hazardous to the aquatic environment, respiratory or skin sensitsers, carcinogenic, mutagenic or toxic for reproduction in accordance with Annex I to Regulation (EC) No 1272/2008 and in accordance with the list in Table 2.

Where stricter, the generic or specific concentration limits determined in accordance with Article 10 of Regulation (EC) No 1272/2008 shall take precedence.

Table 2

Restricted hazard classifications and their categorisation

Acute toxicity	
Categories 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/1	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	
Categories 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	

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Carcinogenic, mutagenic or toxic for reproduction	
Categories 1A and 1B	Category 2
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	
Categories 1 and 2	Categories 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	

This criterion does not apply to ingoing substances covered by Article 2(7)(a) and (b) of the Regulation (EC) No 1907/2006 which set out criteria for exempting substances within Annexes IV and V to that Regulation from the registration, downstream user and evaluation requirements. In order to determine whether that 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 3 are exempted from point (b)(ii) of Criterion 4

Table 3

Derogated substances

Substance	Hazard statement
Surfactants	H400 Very toxic to aquatic life
	H412 Harmful to aquatic life with long-lasting effects
Subtilisin	H400 Very toxic to aquatic life
	H411 Toxic to aquatic life with long-lasting effects

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Substance	Hazard statement
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 SDS confirming that none of these substances meets the criteria for classification with one or more of the hazard statements listed in Table 2 in the form(s) and physical state(s) in which 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 points (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 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 in accordance with the procedure described in Article 59(1) of Regulation (EC) 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 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*

Industrial and institutional dishwasher products shall not contain any fragrances.

Assessment and verification: the applicant 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 the BCF is < 100 or log K_{ow} is < 3,0. If both the BCF and log K_{ow} values are available, the highest measured BCF value shall be used.

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(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 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 the BCF is < 100 or log K_{ow} is < 3,0. If both the 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 or log K_{ow} value, or documentation to ensure that the colouring agent is approved for use in food.

(g) *Enzymes*

Only enzyme encapsulated (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 SDS of any enzyme added.

Criterion 5 — Packaging

(a) *Packaging take-back systems*

If the product is delivered in packaging that is part of a take-back system for a product, that product is exempted from the requirements set out in points (b) and (c) of Criterion 5.

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

(b) *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 / Water hardness	Soft < 1,5 mmol $CaCO_3$/l (g/l of washing solution)	Medium 1,5-2,5 mmol $CaCO_3$/l (g/l of washing solution)	Hard > 2,5 mmol $CaCO_3$/l (g/l of washing solution)
Powders	0,8	1,4	2,0
Liquids	1,0	1,8	2,5

Primary packaging made of 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.

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The WUR is calculated as follows:

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

Where:

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

U_i: weight (g) of non-post-consumer recycled packaging in the primary packaging (*i*). $U_i = W_i$ unless the applicant can prove otherwise

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

R_i: refill index. $R_i = 1$ (packaging is not reused for the same purpose) or $R_i = 2$ (if the applicant can document that the packaging component can be reused for the same purpose and they sell refills).

The applicant shall provide a signed declaration of compliance confirming the content of post-consumer recycled material, along with relevant documentation. Packaging is regarded as post-consumer 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.

(c) *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. Pump mechanisms (including in sprays) are exempted from this requirement.

Table 4

Materials and components excluded from packaging elements

Packaging element	Excluded materials and components (*)
Label or sleeve	— PS label or sleeve in combination 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 with a density > 1 g/cm^3 used with a PET bottle — Any other plastic materials for sleeves/labels with a density < 1 g/cm^3 used with a PP or HDPE bottle — Labels or sleeves that are metallised or are welded to a packaging body (in mould labelling)

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Packaging element	Excluded materials and components (*)
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 or closure material with a density > 1 g/cm^3 in combination with a PET bottle — Closures made of metal, glass or EVA which are not easily separable from the bottle — Closures made of silicone. Silicone closures with a density < 1 g/cm^3 in combination with a PET bottle and silicone closures with a density > 1 g/cm^3 in combination with PEHD or PP bottle are exempted. — 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.

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 in accordance with the 'Framework performance test for industrial and institutional dishwasher detergents' available on the EU Ecolabel website ([1])

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 showed that the product achieved at least 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 — Automatic dosing systems

For multi-component systems, the applicant shall ensure that the product is used with an automatic and controlled dosing system.

In order to ensure correct dosage in the automatic dosing systems, customer visits shall be performed at all premises using the product, at least once a year during the license period, and they shall include calibration of the dosing equipment. A third party can perform these customer visits.

([1]) Available at: [URL for protocol on EU Ecolabel website will be inserted later — currently all proposed protocol documents can be found in the Technical Report].

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Assessment and verification: the applicant shall provide a signed declaration of compliance along with a description of the content of customer visits, who is responsible for them and their frequency.

Criterion 8 — User information

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

(a) *Dosing instructions*

Dosage instructions shall include the dose in g or ml and/or a second or alternative metric (e.g. caps, spray actuations) and the impact of the water hardness on the dose.

This requirement does not apply for multicomponent products to be dosed with an automatic system

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.

(b) *Packaging disposal information*

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

(c) *Environmental information*

A text shall appear on the primary packaging indicating the importance of using the correct dosage and the lowest recommended temperature in order to minimise 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 9 — Information appearing on the EU Ecolabel

The logo shall 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:

— Limited impact on the aquatic environment;

— Restricted amount of hazardous substances;

— 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 artwork of the packaging where the EU Ecolabel is placed.