



DP 01 guidelines requirements Standard ICEA Detergency  
*Ed.01 Rev.02 del 04.08.2020*

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## Scope

### A. CLEANSERS FOR THE WASHING OF DISHES

### B. CLEANSERS FOR HARD SURFACES

### C. CLEANSERS FOR FABRICS

### D. ADJUVANTS

### E. RAW MATERIALS

1. Products for dishwashing machine
2. Products for dishwashing by hands

- a. floors
- b. glasses
- c. remove limestone
- d. ready to use

1. powder detergent
2. liquid laundry

- a. fabric softener
- b. sparkling aid
- c. c. lye soap
- d. d. Citric acid
- e. e. Sodium percarbonate

## RAW MATERIALS

### 5.1 Requisiti Materie prime

- essential oils with this classification may be used for a maximum total concentration of 0.3%
- Derogation for H412 ingredients present in quantities less than 0.010%
  
- It is not permitted in quantities > 0.1% in the final product
  
- Derogation for essential oils and enzymes
  
- It is not permitted in quantities > 0.3% in the final product
- Derogation for essential oils and enzymes

Hazard indication code NOT ALLOWED	
H300	H372
H304	H373
H310	EUH070
H330	H400
H340	H410
H350	H411
H350i	H411
H360F	H412
H360Df	H413
H370	H420

Hazard indication code ALLOWED WITH LIMITATION	
H351	H351
H361fd	H361fd
H361f	H361f

Hazard indication code NOT ALLOWED
H334

Hazard indication code **ALLOWED WITH LIMITATION**

H317

Parameter	Criterion
Acute oral toxicity	LD <sub>50</sub> > 2000 mg/kg
Water toxicity	LC <sub>50</sub> , EC <sub>50</sub> , IC <sub>50</sub> > 1 mg/l
Ratio between biodegradability /eliminability and water toxicity	Admitted only if: < 70% and > 100 mg/l > 70% and > 10 mg/l > 95% and > 1 mg/l

➤ All raw materials and mixtures must comply with these criteria.

➤ There are excluded: Essential oils, preservatives, alkali and acid substances and preparations and *Sodium Percarbonate* (APPLICATION NOTE 25022020)

FOR THE PRESERVATIVES, THE BIOACCUMULATION POTENTIAL IS CONSIDERED

Preservatives with values <500 BCF or <4 logPow are allowed

It is forbidden the use of substances identified as substances of very high concern according to Regulation (EC) No. 1907/2006.

Products resulting from species at risk of extinctions are not allowed and the compliance with the requirements of the **Convention on International Trade of Endangered Species of Wild Fauna and Flora (CITES)** is mandatory; only the species belonging to appendix II and III are admitted, taking into account the relevant limitations detailed

Raw materials of inorganic origin allowed

CAUTION!!! The list has changed compared to the previous edition of the Disciplinary

It's allowed The use of ethydrionic acid or 1-hydroxyethane 1,1-diphosphonic acid and its salts (HEDP) only as a stabilization of peroxides. (APPLICATION NOTE 16052019) and TETRASODIUM ETIDRONATE only as a chelator in the production of solid soaps. (APPLICATION NOTE 25022020)

## 5.2 Raw materials of plant origin

### ➤ ECO BIO CLEANERS

raw materials from plant origin resulting from organic farming or spontaneous harvesting and certified according to EC Reg. 834/07 (or other international reference standards: e.g. NOP, JAS, COR, etc.).

### ➤ ECO CLEANERS

is allowed the use of products for conventional farming but not GMO or resulting from GMO

## 5.3 Raw materials of animal origin

In order to safeguard animals' health both product categories shall come from organic breeding. Raw materials obtained killing the animals are not allowed.

## 5.4 Raw materials of inorganic origin

Chemical name of the ingredient
Zeolite (insoluble inorganic substance)
Clay (insoluble inorganic substance)
Carbonates
Silicates
Sodium percarbonate
Sodium sulphate and magnesium
Calcium and sodium chloride
Silicon dioxide, quartz (insoluble inorganic ingredients)
Na-/Mg-/KOH
Dyeing, if not otherwise specified (**)
Sodium disilicate
Bentonite

*Currently the ingredients of mineral origin listed in ANNEX 1 are not included in the calculation of the natural*

content and documentation proving their natural origin must be sent. (APPLICATION NOTE 25022020)

## 5.5 Raw materials from synthesis chemical processes

a) The alkyl chains used for the synthesis processes of surfactants must be of vegetable origin

b) other products

The products listed in the Substances Archive in the CVDtox file are admitted, for which there are no valid alternatives of proven natural origin available on the market and which have positively assessed the impact characteristics on the environment and on the skin.

## 5.6 Water

Drinkable, demineralized or osmosised water can be used.

## 5.7 Enzymes, raw materials from bacterial fermentation

Enzymes, also from genetically modified organisms, are permitted upon condition to be properly secured.

## 5.8 Ingredients derived from palm oil

From 1 August 2019 the new ECO and ECO ORGANIC CLEANING certified products must be formulated using certified palm oil derived ingredients from Certified Sustainable Palm Oil (CSPO).

The minimum required certification level will be the Roundtable Sustainable Palm Oil (RSPO) Mass Balance standard. Will then be accepted palm oil and/or palm seed oil certified according the Segregated Certified Model or Identity Preserved (IP) model.

- Certification requires documentation that proves the natural origin of the raw materials that supply the chain of carbon atoms that distinguishes these molecules.
- Each ingredient must comply with the requirements in point 5.1, even if present in the Substance Archive

For more information visit <http://icea.bio/rspo-sustainable-palm-oil/?lang=en>

The following ingredients used in certified products and ingredients must be of sustainable origin:

- Palm oil
- Palm kernel oil
- Glycerin, cocamidopropyl betaine and coco betaine
- Fatty acids: stearic acid, palmitic acid, myristic acid, lauric acid
- Fatty alcohols: cetyl alcohol, cetearyl alcohol, stearyl alcohol, lauryl alcohol
- Esters made from fatty acids or fatty alcohols: cetyl palmitate, cetyl phosphate, myristyl myristate, glyceryl (mono-) stearate and glyceryl oleate
- Triglycerides: C8-C10 caprylic/capric triglyceride and C10-C18 triglycerides

The environmental impact (aquatic toxicity) of the finished product will be evaluated with the value of VCDTOX.

The critical dilution volume will be calculated using the formula taken from the EEC Ecolabel regulation, latest EU Decision 2017/1218 dated 23/06/17, which establishes the ecological criteria for the award of the EU Ecolabel to detergents for laundry.

The VCDtox calculation can be made for the single ingredients, complex formulations of finished products.

## PRODUCTS

### 1. EVALUATION OF ENVIRONMENTAL IMPACT

$$VCD_{TOX} (\text{ingredient } i) = \frac{\text{weight/wash } (i) \times \text{loading factors } (i)}{\text{Long term effects } (i)} \times 1000$$

CATEGORIA PRODOTTO	VALORE MASSIMO
WASHING UP LIQUID	3500
HARD SURFACES	5000
LAUNDRY DETERGENTS FOR HAND AND MACHINE WASHING	200000
DISHWASHER	20000
GLASS	1500
'READY TO USE' DETERGENTS	10000
SOFTENERS	20000

The VCDtox value shall be calculated according to:

- a) "standard values" listed in the Substances Archive (DID list) or
- b) "actual values" determined through eco-toxicological tests on aquatic organisms (OECD Guideline 201, 202 and 203) and biodegradability test (OECD Guideline series 301). In case actual values are used, provide a copy of the testing results.



## 2. COMPOSITION

**95% of ingredients of natural origin**  
**20% minimum organic content**



**95% of ingredients of natural origin**  
**no minimum biological level**



**Natural origin** is calculated considering the proportion of natural content from chemical synthesis products for which the natural origin of the raw materials supplying the Carbon atoms characterizing such molecules is proved.

The **calculation of the organic content** of a product is given by the ratio between the sum of the ingredients from organic farming and raw materials made with organic ingredients compared to the total of ingredients, without considering water.

$$\% \text{ organic content} = \frac{\sum (\% \text{ organic ingredients}) + \sum (\% \text{ organic content for raw materials made with organic ingredients})}{\sum (\text{all ingredients} - \text{water})}$$

For raw materials made with organic ingredients, the actual percentage of organic matter is taken into account, in other words, the part of a certified ingredient according to EC Regulation n. 834/2007 or an equivalent national or international standard.

**ECO BIO  
CLEANER**

**ECO  
CLEANER**

Powder formulations are excluded from this requirement.

*The solid soaps, must contain at least 75% by weight of ingredients of natural origin.*  
 (APPLICATION NOTE 151119)

The organic ingredient is certified according to EC Regulation no. 834/2007 or an equivalent national or international standard by a duly established certification authority or body.



➤ packaging materials allowed for all components

➤ the use of PVC is prohibited.

For a reduction of the environmental impact due to packaging, it is requested to communicate and incentivize the reuse of the container for refills, not to use secondary packaging and to use labels in the same material as the primary pack

The use of a spraying pump or multipurpose dispenser (e.g. containing metal elements) is permitted upon company request and only if a proven technical justification is provided by the same company. In such cases, it is mandatory have in market this article also in the "recharge" version and encourage the consumer, by means of visible labelling, to the repeated of the spaying pump.

**CAUTION!!!** Adjuvants and raw materials are excluded

For the certification it is necessary that the effectiveness of the product is tested with a type of scientifically demonstrable and repeatable analysis.

### 3. PACKAGING

reduced environmental impact



PE, PET, PP, PETG, HDPE, LDPE  
PAPER  
GLASS

Minimum packaging



reuse of the refill container  
Avoid secondary pack

Eco-compatible materials



Monomaterial dispenser

### 4. PROVE E ANALISI OBBLIGATORIE

**PERFORMANCE TEST** x certify its effectiveness with respect to similar products, even those not certified, with a market leader position.

**USER TEST** for ICEA professional products, following a motivated preliminary assessment

PATCH TEST for products that come into continuous and stable contact with the skin

OTHER TESTS Each specific functional property attributed to the products and claimed on the label must be demonstrated.

## 5. ETICHETTE

- ❖ indication provided for by the laws enforced in the Country of distribution
- ❖ The list of all the ingredients present in the formula indicated with INCI nomenclature in decreasing order of percentage by weight
- ❖ The natural content of the product (Y% natural origin)
- ❖ The organic content of the product for the ECO BIO DETERGENZA certification
- ❖ Indication of raw materials from organic farming in the list of ingredients with the words "from organic farming" or "made with organic ingredients"



Otherwise the use of the product with gloves should be indicated on the label.

The results of these tests will have to be available to consumers.

*the company has the possibility to insert on the ingredients list the raw materials used during the production or to insert the result of raw materials reaction (example: olea europaea fruit oil, potassium hydroxide or potassium olivate, glycerin). (APPLICATION NOTE 25022020)*

Inside the ICEA logo must report the product code:

XXX DP YYY  
XXX EC YYY

XXX= code of company

YYY= progressive number starting from 001

## **FINISHED PRODUCTS MANAGEMENT SYSTEM**

a) For certified products and raw materials from organic farming, the storage areas shall be clearly indicated with labels in order to avoid any confusion or risk for products integrity.

b) The company shall ensure that manufacturing processes are carried out in compliance with procedures to avoid contamination of organic or natural ingredients with separate production in time and space.

c) The company is required to implement a management system and appropriate records to ensure the traceability of ingredients, semi-finished products and finished products at all stages of the production process. The documentation to be collected and stored includes reports of the tests on the ingredients and products and filing of documentation for analysis, production and storage.

d) Certified products shall not be tested on animals, unless required by the law.

## SUMMARY

For the certification of a reference according to the Disciplinary ECO BIO or ECO CLEANERS, it is necessary to consider:

- ✓ **The requirements related to the individual ingredients:** each ingredient must comply with the requirements listed above, even if present in the Substance Archive

F O R M U L A T I O N	<ul style="list-style-type: none"><li>• Classification and hazard identification code according to EC Regulation n.1272 / 2008 for all ingredients, bearing in mind that there are limitations and exceptions</li><li>• Acute oral toxicity except for essential oils and preservatives</li><li>• Bioaccumulation for preservatives</li><li>• Inclusion in CITES Appendix II and III of raw materials of vegetable and animal origin used</li><li>• Raw materials of inorganic origin are limited to those listed in Appendix 1</li><li>• The alkyl chains used for the synthesis processes of surfactants must be of plant origin</li><li>• From 1 August 2019 the ingredients derived from palm oil certified for sustainable certification of sustainable palm oil (CSPO).</li></ul>
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- ✓ **The criteria related to the finished product:** composition, packaging and labelling of the finished product; test

<ul style="list-style-type: none"> <li>• 95% of ingredients of natural origin</li> <li>• 20% minimum organic content for ECO BIO DETERGENZA</li> <li>• Conforming packaging materials</li> <li>• Labels with logo, ingredients list in descending order and % of natural and organic content</li> <li>• Performance test and user test</li> <li>• Patch tests for products that in contact with the skin</li> </ul>	<p>P R O D U C T S</p>
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