

Products for cleaning, disinfection and hygiene

Basic admission criteria for the European Input List

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1. Introduction

This document describes the criteria that need to be fulfilled in order for cleaning, disinfection and hygiene products to be included in the European Input List. Additional criteria may apply for products to be included in a national list or a list of a private association. This document will be updated whenever necessary. The most recent version, which is available on the project website (www.inputs.eu), is the only valid version.

This document is based on the relevant EU legislation (in particular Reg. 889/2008). However, it also comprises additional criteria, which were set by FiBL, in order to ensure compliance with the objectives and principles of organic production. These criteria take into account effects on human health and/or the environment as well as the risk of causing residues. Furthermore, the scope of uses is broader than the one covered by the EU organic legislation.

2. Requirements concerning the composition

This chapter describes a set of requirements which are applied either to the components of a product or to the product as a whole. Not all requirements apply to all product types. Tab. 1 explains which requirements apply to which types of products.

Table 1: Overview showing which requirements apply to which products (yes = applies; no = does not apply).

Requirement	Product for use in ...				
	Livestock buildings and installations	Milking facilities	Crop production	Processing	Animal care
Active substances in Annex VII (see section 2.1)	yes	no	no	no	no
Exclusion of unwanted substances (see section 2.2)	yes	yes	yes	yes	yes
Exclusion of substances with unwanted properties (see section 2.3)	no	no	no	no	yes
Critical dilution volume (see section 2.4)	yes	yes	yes	yes	no

2.1 Allowed active substances

Background

The EU organic legislation contains a list of substances for cleaning and disinfection (Annex VII of Reg. 889/2008). The European Input List has adopted this list with the exception of formaldehyde, which is not allowed (see 'unwanted substances'). Note: currently, sodium hypochlorite is not excluded by the European Input List, but by several national lists (see criteria for national lists). In line with the interpretation of EGTOP¹, the European Input List applies Annex VII only to active substances. Note: In certain countries (e.g. Austria, The Netherlands), national legislation specifies which active substances may be used in organic crop production. Where this is the case, this legislation is taken into account by the complementary national admission criteria.

Annex VII applies in different ways, depending on the field of use. For cleaning and disinfection of *buildings and installations for livestock production*, section 1 of Annex VII applies. For cleaning and disinfection of *milking facilities and teats*, Annex VII of Reg. 889/2008 allows all substances. For cleaning and disinfection in *crop production and processing facilities*, Annex VII of Reg. 889/2008 contains no provisions at the moment. Thus, the European Input List does not apply Annex VII of Reg. 889/2008 for such products. For cleaning and disinfection in *aquaculture*, section 2 of Annex VII of Reg. 889/2008 applies. At the moment, however, the European Input List does not include such products and has therefore not developed a policy for such products.

Application of requirements

The requirements concerning active substances are applied

- to all products for use in buildings and installations for livestock production, but
- not to products for other uses.

Requirements

- All components which are active substances must be listed in section 1 of Annex VII of Reg. 889/2008.
- Exception: formaldehyde is not allowed.

¹ Expert Group for Technical Advice on Organic Production

2.2 Prohibition of unwanted substances

Background

Commercial products for cleaning and disinfection contain not only active substances, but also a wide range of other substances (so-called co-formulants). Because the EU legislation does not regulate these components, the team of the European Input List has developed its own policy.

Safeguard clause

In addition to the requirements described below, the European Input List reserves the right to exclude all substances or products from all categories if there is a reasonable scientific suspicion that they could have serious adverse effects on human health and/or the environment (e.g. carcinogenic, mutagenic, toxic to reproduction, endocrine disrupting, toxic to aquatic organisms, low biodegradability, persistent).

Application of requirements

The requirements concerning unwanted substances are applied

- to all products groups.

Requirements and their application

- The substances listed in Table 2 are not allowed in the products.

Table 2: Unwanted substances.

Unwanted tensides
<ul style="list-style-type: none">• Alkylphenoethoxylate (APEO)• Fluorosurfactants• Quaternary ammonium compounds (QAC's)
Unwanted acids (including their salts)
<ul style="list-style-type: none">• Phosphates• Phosphoric acid esters• Phosphonic acid• Phosphonic acid ester / Polyphosphonates• Phthalic acid esters / Phthalates• Persistent long-chain polycarboxylic acids (short-chain, such as ascorbic acid, tartaric acid, citric acid, are permitted)
Unwanted other components
<ul style="list-style-type: none">• Biphenyl-2-ol• Chlorine releasing substances / Active chlorine / Electrolyte water• Triclosan• Perchlorates• Ethylenediaminetetraacetic acid (EDTA), Diethylenetriaminepentaacetic acid (DTPA), Nitrilotriacetic acid (NTA) and their salts as well as other comparable chemical-synthetic chelators• Formaldehyde und formaldehyde-releasing substances• Ammonia and ammonia-releasing substances• Amino-alcohols (monoethanolamine, diethanolamine)• Synthetic nanoparticles (< 0.3 µm)• Enzymes• Bromine compounds

2.3 Exclusion of substances with unwanted properties

Background

Substances are classified with certain hazard statements according to Reg. 1272/2008. This indicates their hazards with respect to human health and the environment. Many substances with unwanted properties have been categorized as 'unwanted substances' by the European Input List (see above). As an additional safeguard, the European Input List also excludes other substances that are classified with the hazard statements shown in Tab. 3.

Application of requirements

The requirements concerning substances with unwanted properties are applied

- only to products for animal care, but
- not to products for other uses.

Requirements

- Components which are classified with one of the hazard statements in Table 3 are excluded.
- Exceptions:
 - For natural plant extracts and oils present up to a maximum of 5 % in the formulation, hazard statements are not taken into account.
 - For substances authorised as active substances in Annex VII of Reg. 889/2008, hazard statements are not taken into account.

Table 3: Hazard statements defining unwanted properties in the context of the European Input List.

H300	H310	H311	H317	H330	H340
H350	H350i	H360	H360F	H360D	H360FD
H360Fd	H360Df	H362	H370	H372	
H410	H411	H420	EUH070		

2.4 Ecotoxicity and biodegradability at use concentrations

Background

To ensure that only products with low ecotoxicity and good biodegradability in aquatic environments are included, the European Input List applies the approach of the 'critical dilution volume' (CDV), which was developed for the EU Ecolabel². Whereas all previously described criteria apply to individual components of products, the CDV applies to the product as a whole. It takes into account the chronic toxicity, degradation and concentration of each component as well as the proportions of the components in the product and the use concentrations of the product. The European Input List discriminates between use concentrations for regular use (e.g. daily) and occasional use (e.g. once a week). For more explanations, see the summary in the Annex or the full description in the EU-Ecolabel.

Application of requirements

The requirements concerning ecotoxicity and biodegradability are applied

- to all product groups,
- except for products for animal care.

Requirements

- The CDV for 'regular use' concentrations may not exceed 10 000.
- The CDV for 'occasional use' concentrations may not exceed 20 000.

² COMMISSION DECISION (EU) 2017/1217 of 23 June 2017 establishing the EU Ecolabel criteria for hard surface cleaning products

3. Compliance with general legislation

The European Input List includes only products that comply with the relevant EU and national legislation. In the context of cleaning, disinfection and hygiene, the following aspects are particularly relevant:

- Products with a disinfecting effect must be registered in compliance with biocide legislation.
- For products which are not registered as disinfectants, no claims of a disinfecting effect may be made.

Because biocidal products are registered at a national level, compliance with general legislation is checked during evaluation for inclusion of products into the national lists associated with the European Input List. If national evaluation teams suspect that a product does not comply with the relevant legislation, they may postpone inclusion into the list until the applicant has demonstrated legal compliance.

Annex I: Calculation of the Critical Dilution Volume (CDV)

The method for calculating the chronic Critical Dilution Volume (CDV) is explained in the EU-Ecolabel³. The formula for calculating the CDV is as follows:

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

Where:

$\text{dosage}(i)$: weight (g) of the substance (i) in the reference dose;

$DF(i)$: degradation factor for the substance (i);

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

The values $DF(i)$ and $TF(i)$ are taken from the 'Detergent ingredient database' list (DID list).

³ COMMISSION DECISION (EU) 2017/1217 of 23 June 2017 establishing the EU Ecolabel criteria for hard surface cleaning products