

# Environmentally Friendly Products / Substance Restrictions / Prohibitions

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## General

These guidelines must be applied in the design and development of products in all business areas of the BeeWaTec Group (hereinafter referred to as BEEWATEC) as well as in the procurement of materials and parts that go into the products.

The aim of these guidelines is to ensure compliance with current and future regulations regarding the ingredients in products, components, and packaging and to minimize the use of harmful but (still) not prohibited substances. These guidelines essentially summarize only the regulations applicable at the time of creation of the factory standard that the supplier must comply with anyway.

The supplier is obliged to inform himself about any updates to the guidelines and standards mentioned in the factory standard before providing services and to base his performance on the standard applicable at the time-of-service provision.

## Abbreviations

|                |   |
|----------------|---|
| <b>REACH:</b>  | Registration, Evaluation and Authorization of Chemicals                                       |
| <b>RoHS:</b>   | Restriction of the use of certain Hazardous Substances in electrical and Electronic equipment |
| <b>Prop65:</b> | California Proposition 65   |
| <b>POP:</b>    | Persistent Organic Pollutants   |
| <b>SVHC:</b>   | Substances of Very High Concern   |
| <b>PAK:</b>    | Polycyclic Aromatic Hydrocarbons  |
| <b>PFAS:</b>   | Per- and Polyfluoroalkyl Substances   |
| <b>MOSH:</b>   | Mineral Oil Saturated Hydrocarbons  |
| <b>MOAH:</b>   | Mineral Oil Aromatic Hydrocarbons   |

## Supplier obligations

- **Compliance with Regulations:** The supplier must ensure that all delivered components, materials, packaging, or products comply with the restrictions listed below. These requirements apply worldwide, even if the end product is intended for a customer outside the EU.
- **REACH Regulation:** The substances must be correctly pre-registered and approved in accordance with Regulation No. 1907/2006 of the European Parliament and the Council for the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH).
- **RoHS Directive:** Products containing electrical or electronic components must meet the requirements of Directive 2011/65/EU (RoHS) on the restriction of the use of certain hazardous substances in electrical and electronic equipment. DIN EN IEC 63000 is used to create the RoHS-specific technical documentation. The supplier must provide evidence of compliance with the RoHS Directive on request.
- **Use of Potentially Prohibited Substances:** If the supplier intends to use substances that may be banned in the future, he must obtain approval from BEEWATEC beforehand. Possible impacts on the end product (process/component changes) must be indicated.
- **Communication and Measures in the Supply Chain:** The supplier is obliged to pass on the relevant restrictions to his own supply chain and to take all necessary measures to ensure compliance, such as regular random checks. The BEEWATEC purchasing department is responsible for all relevant information or inquiries.
- **Proof of Compliance:** Proof of compliance with other requirements must be provided on request.

## EU legal restrictions

### REACH-Regulation EG No. 1907/2006

The supplier guarantees in accordance with the European REACH Regulation that all substances requiring registration used in his products are pre-registered and/or already registered with the European Chemicals Agency (ECHA) (in accordance with Articles 57/59).

### Candidate list – Substances of very high concern (SVHC)

Candidate List – Substances of Very High Concern (SVHC): If the supplier intends to use SVHC or if such a substance is contained in the contractual products, BEEWATEC must be informed immediately, specifying the quantity. This information obligation according to Article 33 arises as soon as the limit value of 0.1% by weight per product is exceeded. If applicable, the product must be entered into the ECHA database by the supplier (Directive (EU) 2018/851) and the SCIP number must be provided to BEEWATEC.

The supplier is expressly informed that the candidate list is continuously supplemented by the EU. It is his duty to regularly inform himself about updates: [Candidate List](#).

### REACH Annex XIV

For substances requiring authorization, the supplier is obliged to supply only those substances and substances in mixtures whose use is authorized. Annex XIV is regularly updated by the EU, and the supplier must keep himself informed of these changes: [Authorization List](#).

### REACH article 67 paragraph 1 annex XVII

For substances subject to restrictions, only those substances, substances in mixtures, and substances in products that comply with the restrictions of the European REACH Regulation may be supplied. Annex XVII is continuously updated, and the supplier is obliged to regularly inform himself about changes: [Restricted Substances](#).

## Polycyclic aromatic hydrocarbons (PAHs)

For all substances supplied to BEEWATEC, the following limit values apply, based on homogeneous substances:

- **Carcinogenic Substances:** Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Benzo[ghi]perylene, Indeno[1,2,3-cd]pyrene: < 0.5 mg/kg (0.5 ppm) per individual substance.
- **Non-carcinogenic Substances:** Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene: Total < 10 mg/kg (10 ppm).
- **Naphthalene:** < 2 mg/kg (2 ppm).
- **Total of all 18 PAHs:** Total < 10 mg/kg (10 ppm).

## Per- and polyfluoroalkyl substances (PFAS)

For all supplied substances, the following limits apply:

- **individual Substance:** < 25 ppb (< 0.025 mg/kg).
- **Total non-polymeric PFAS:** < 250 ppb (< 0.25 mg/kg).
- **Polymeric PFAS:** < 50 ppm (< 50 mg/kg) based on homogeneous material.

The EU legislative process is still ongoing. Exemption permits have not yet been established. The supplier must already indicate whether his supplied articles contain PFAS (substance name and concentration by weight) to take possible special permits into account.

## RoHS EU directive 2011/65/EU (Amendment annex acc. (EU) 2015/863)

For substances subject to restrictions, only such components and parts may be supplied that comply with the maximum permissible concentrations in homogeneous materials in accordance with the European RoHS Directives. If exemptions are used in accordance with Annex III 2011/65/EU (including revisions) and their respective validity period, this must be communicated to BEEWATEC. Apart from the exemptions, the following maximum concentrations apply:

### Permissible Maximum Concentrations in Homogeneous Materials

| Substance   | maximum permissible Concentration                  |
|---|--|
| Lead (Pb), Mercury (Hg), Chromium VI (Cr(VI)), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), Bis(2-ethylhexyl)phthalat (DEHP), Benzyl butyl phthalat (BBP), Dibutyl phthalat (DBP), Diisobutyl phthalat (DIBP) | 0,1% by weight in homogeneous material (1000 ppm)  |
| Cadmium (Cd)  | 0,01% by weight in homogeneous material (1000 ppm) |

## Packaging materials

Primary, secondary, and tertiary packaging must comply with the requirements of Directive 94/62/EU. Packaging materials that do not meet these requirements must not be supplied.

## Substance restrictions for all supplied packaging materials

| Substance   | maximum permissible Concentration  |
|---|------------------------------------|
| Cadmium (Cd), Mercury (Hg), Chromium VI (Cr(VI)), Lead (Pb) | ≤ cumulative 100 ppm (≤ 100 mg/kg) |

Prohibition of the Use of Mineral Oils (MOSH with 1 to 7 Aromatic Rings and MOAH with 16 to 35 Carbon Atoms) in Printing Inks for Packaging and Printed Products:

- **Until 31.12.2024:** The mass concentration of these substances in the printing ink must not exceed ≤ 1% (only applicable to MOAH).
- **From 01.01.2025:**
  - **MOAH:** The mass concentration must not exceed ≤ 0.1% or ≤ one part per million (ppm) (for compounds with 3 to 7 aromatic rings in the printing ink).
  - **MOSH:** The mass concentration must not exceed ≤ 0.1%.

## Environmental labeling for all supplied packaging materials

### a) Italian Packaging Law (Decree No. 116/2020):

An alphanumeric code according to 97/129/EC must be included, indicating the type of packaging and providing information on the correct separation of packaging material in Italian.

### b) French Circular Economy Law (Loi n° 2020-105 AGEC):

The Triman logo and information on waste separation (Info-tri) must be present.

## Requirements of the EU timber regulation

For all packaging materials and paper products or materials containing wood, the requirements of the EU Timber Regulation (EU No. 995/2010) must be met. BEEWATEC does not accept products made from illegal logging.

## Batteries

Directive 2006/66/EC (including amendments 2008/12/EC and 2013/56/EU) forms the legal basis in the EU for the placing on the market and disposal of batteries and accumulators. The permissible substance limits are listed in the following table. If the contained substances exceed the limit values, the batteries must be marked accordingly.

| Substance    | maximum permissible Concentration                 |
|--------------|---|
| Cadmium (Cd) | ≤ 0,002% by weight                                |
| Lead (Pb)    | ≤ 0,004% by weight                                |
| Mercury (Hg) | ≤ 0,0005% by weight (Button cell: ≤ 2% by weight) |

## Additional substance restrictions

### Conflict minerals:

According to the EU Conflict Minerals Regulation ((EU) 2017/821) and the Dodd-Frank Act (DFA) Section 1502, the supplier is obliged to ensure that products supplied to BEEWATEC (components, parts, materials) containing tantalum, tin, tungsten, their ores, and gold (3TG) come only from responsible and conflict-free sources. If this is not the case, BEEWATEC must be informed immediately.

### Asbestos

The use of asbestos or asbestos fibers (including actinolite, tremolite, crocidolite, amosite, chrysotile, and anthophyllite) in components, products, packaging materials, and paper is strictly prohibited.

### Proposition 65

According to California Proposition 65, BEEWATEC is required to label products if they contain substances listed in the linked document. Therefore, suppliers must report the presence of any of these substances to BEEWATEC. Each supplier is obliged to regularly inform himself about updates to the list: [Proposition 65 List](#)

### Plasticizers

The supplier must inform BEEWATEC in writing and with details of the extent if the contractual product contains or will contain plasticizers from the candidate list. This information obligation arises as soon as the limit value is exceeded. It is expressly pointed out that the candidate list is regularly supplemented by the EU. The supplier is obliged to regularly inform himself about updates to the list: [Candidate List](#)

**Permissible maximum concentrations**

| Substance   | maximum permissible Concentration                 |
|---|---|
| Chloralken C10-C13 (SCCP)   | 0,15 % w/w  |
| Diisobutylphthalat (DIBP), Dibutylphthalat (DBP), Benzyl butyl phthalat (BBP), Bis(2-ethylhexyl)phthalat (DEHP)   | 0,1% by weight in homogeneous material (1000 ppm) |
| Bis(2-methoxyethyl)phthalat (DMEP), Diisopentyl phthalat (DIPP), N-pentyl-isopentylphthalate, 1,2-Benzoldicarboxylic acid, di-C7-11-branched and linear alkyl esters (Di(heptyl, nonyl, undecyl) phthalate (DHNUP), Dialkylphthalat (C7-11) branched and linear), Dihexyl phthalate, 1,2-Benzoldicarboxylic acid, Di-C6-8-branched alkyl esters, C7-rich (C6-8-branched)-Alkylphthalat, Diisoheptyl phthalat, 1,2-Benzoldicarboxylic acid, Dipentyl ester, branched and linear (Dihexylphthalat), Dipentylphthalat (DPP), 1,2-Benzoldicarboxylic acid, Dihexyl ester, branched and linear (bis-C5-Alkyl-(linear and branched)phthalat), 1,2-Benzendicarboxylic acid, Di-C6-10-alkyl esters; 1,2-Benzendicarboxylic acid, mixed Decyl and Hexyl and Octyl-Diester with $\geq 0,3\%$ Dihexylphthalat (EC Nr. 201-559-5) | 0,1% w/w  |
| Diisodecylphthalat (DIDP), Diisononylphthalat (DINP)  | 0,1 % w/w   |

**(Declaration requirement: If the limit value is exceeded, the concentration of the substance must be specified.)**

## Persistent organic pollutants (POPs) EU No. 2019/1021

The supplier must inform BEEWATEC in writing and with details of the extent if POPs from the candidate list are contained in or intended to be contained in the contractual products. This information obligation arises as soon as the limit value is exceeded. It is expressly pointed out that the candidate list is regularly supplemented! The supplier is obliged to regularly inform himself about updates to the standard, e.g.: [POP's Regulation](#)

### Change history

| Date       | Chapter | Change                                      |
|------------|---------|---|
| 06.06.2024 |         | Introduction of WERKSNORM_062024_1 under V0 |
|            |         |   |

## Supplier signature

The factory standard WERKSNORM 062024\_1 forms the basis for every order from BEEWATEC to the supplier. By signing, the supplier confirms that he complies with the current version of the BEEWATEC factory standard WERKSNORM 062024\_1.

The supplier also undertakes to oblige all subcontractors used to comply with this standard. Compliance with the BEEWATEC factory standard WERKSNORM 062024\_1 does not release the supplier from the obligation to comply with all applicable laws and regulations.

Please return this signed page to confirm your agreement.

Thank you.

Agreement factory standard WERKSNORM 062024\_1 :      Yes                      No

Name/Address of the company:

Function of the signatory:

Place, date stamp, Signature: