

# FN 940106

## Ban on / declaration of ingredients



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<b>Process</b>	7.1
<b>Subject</b>	Festo standard 940106 defines specifications for banned ingredients used in materials, as well as ingredients which are subject to mandatory declaration.
<b>Scope</b>	This standard applies to Festo AG & Co. KG as well as all affiliated plants and national companies.
<b>Purpose</b>	The standard serves to implement legal stipulations, as well as requirements specified by Festo's customers.
<b>Note</b>	
<b>Note regarding printed copies</b>	Printout for information only! Valid version in database only Valid version for suppliers in SIS only
<b>Replacement for</b>	<u>Festo list of banned substances</u>
<b>Previous versions</b>	Not applicable
<b>Changes</b>	Not applicable
<b>Cited standards and other applicable standards</b>	Not applicable

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## 1 Definitions

### 1.1 Official definitions

**Substance:** A chemical element and its compounds, either in its natural form or produced by means of a manufacturing process, including the additives required in order to maintain its stability and any contamination necessarily resulting from the utilised process, with the exception of solvents which can be separated from the substance without impairing its stability and without changing its composition

**Formulation/mixture:** A batch, a mixture or a solution which is made up of two or more substances

**Homogenous material:** Definition based on the example of an anodised aluminium component: The component consists of an aluminium body and an aluminium oxide coating. As a result, the aluminium component includes two homogenous materials (see GADSL and EU-RoHS definitions).

**Product:** An object which is furnished with a specific shape, surface or form during the manufacturing process, which determines its function to a greater extent than its chemical composition

### 1.2 Specific definitions

**Material:** This Festo standard interprets the term material as anything which:

- Remains in a Festo product
- Festo uses as an ancillary material in production
- Festo passes on to external customers in the form of packaging
- Operating equipment used in-house

Examples of materials:

- Complete products, including purchased goods
- Sub-assemblies
- Components
- Semi-finished products
- Raw materials
- Formulations or mixtures
- Substances
- Packaging, including conditioners such as drying agents and corrosion protection agents

## 2 Legal requirements and other stipulations

Abbreviation	Explanation
EU 2009/251	Commission decision of 17 march 2009 requiring member states to ensure that products containing the biocide dimethylfumarate are not placed or made available on the market
EU directive on batteries and accumulators	Directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators
EU-ELV	Directive 2000/53/EC on end-of life vehicles
EU-REACH	Regulation (EC) no. 1907/2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH)
EU-RoHS	Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment
EU packaging directive	Directive 94/62/EC on packaging and packaging waste
GADSL	The <b>g</b> lobal <b>a</b> utomotive <b>d</b> eclarable <b>s</b> ubstance list, compiled by the Global Automotive Stakeholders Group (GASG), contains bans on substances and stipulates mandatory declaration of substances which may be included in automobiles.
IMDS	The <b>i</b> nternational <b>m</b> aterial <b>d</b> ata <b>s</b> ystem is the Internet declaration system of an association of automobile manufacturers.
SVHC	<b>S</b> ubstances of <b>v</b> ery <b>h</b> igh <b>c</b> oncern: especially alarming substances defined in the candidate list of the European Chemicals Agency (ECHA)

Table 1: Index of legal requirements and other stipulations

## 3 Procedure

### 3.1 Reasons for a supplier declaration

Every supplier who ships materials (as defined in section 1 of this standard) to Festo must acknowledge consideration of and adherence to this standard in writing. As a rule, this confirmation is included in the supplier self-evaluation.

Redeclaration is required of the supplier as soon as any of the reasons specified below become applicable. Redeclaration must be submitted by the supplier to the responsible Festo purchasing department without delay after applicability of the reason becomes apparent.

- A “material” is submitted as a first article sample, distributed or shipped for the first time
- Previous declarations are incorrect
- Substances and/or processes have been changed
- New substance bans and/or requirements for mandatory declaration of substances have become effective for a material used by the supplier
- New limit values have become effective for a material used by the supplier
- The utilised amount of the supplied material changes such that the agreed upon quantity tolerances are exceeded
- An individual request has been submitted

Consequently, the supplier is obligated to remain up-to-date, of his own accord, with regard to developments concerning the legal regulations specified in section 2.

Declarations may currently be submitted in any format chosen by the supplier.

The specified obligations do not apply to metallic alloys which have been specified and approved by Festo.

### 3.2 Classification of ingredients

#### 3.2.1 Definition of limit values

If no limit value is specified in this standard or in any legal regulations, a limit value of 0.1% by weight applies. Depending upon the regulation, the limit value applies to either the supplied product, the substance, the formulation, the mixture or the homogenous material.

#### 3.2.2 Banned ingredients

Banned ingredients may not occur in supplied materials in a concentration which exceeds the limit value.

A ban or a limit value may be applicable for certain applications.

If the ban is not or cannot be adhered to, the concentration must be indicated, so that further action can be agreed upon with Festo. If limit values are specified for groups of substances, the individual substances must be named by the supplier.

## 4 Bans on materials / mandatory declaration of materials

### 4.1 Valid for all materials in accordance with section 1 of this standard

#### 4.1.1 REACH

Materials must comply with requirements set forth in annex XVII of regulation (EC) no. 1907/2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH) for the applications listed therein. This annex can be accessed via the websites of the European Chemicals Agency (ECHA) at <http://echa.europa.eu>, and via the index of European Union Law at <http://eur-lex.europa.eu>.

Materials which contain substances from the candidate list (SVHC = substances of very high concern) at a concentration of greater than 0.1% by weight must be declared to Festo immediately after their presence becomes known. The current candidate list can be accessed via the websites of the European Chemicals Agency (ECHA) at <http://echa.europa.eu>.

**Important note:** The candidate list is amended at regular intervals of no greater than every 6 months.

#### 4. 1. 2 GADSL

Materials may not contain substances identified with a **P (prohibited)** in the **global automotive declarable substance list** at concentrations which exceed the specified limit value. The GADSL can be accessed at [www.gadsl.org](http://www.gadsl.org).

**Note:** The GADSL includes substances regulated in Europe (redundancy with REACH), as well as substances regulated in non-European countries.

#### 4. 1. 3 RoHS

Regardless of their intended purpose, materials must comply with directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment. The following regulations currently apply:

Regulated ingredient	Limit value Percentage by weight	Remarks
Lead and its compounds	0.1	
Cadmium and its compounds	0.01	
Mercury and its compounds	0.1	
Compounds which contain hexavalent chromium	0.1	
Polybrominated biphenyls (PBBs)	0.1	
Polybrominated diphenyl ethers (PBDEs)	0.1	

Table 2: Regulated substances in accordance with RoHS

#### 4. 2 Batteries and accumulators

Batteries and accumulators must comply with the requirements set forth in battery directive 2006/66/EC. The following regulations currently apply:

Regulated ingredient	CAS number	Limit value Percentage by weight	Remarks
Cadmium	7440-43-9	0.002	
Mercury	7439-97-6	0.0005	

Table 3: Regulated substances in batteries and accumulators

#### 4. 3 Packaging

Packaging must comply with the requirements set forth in packaging directive 94/62/EC, as well as commission decision 2009/251/EC. The following regulations currently apply:

Regulated ingredients	CAS number	Limit value	Remarks
Lead	Material group	100 ppm, cumulative	Accumulation of heavy metals from printing inks is possible during production processes which utilise recycled materials.
Compounds which contain hexavalent chromium	14977-61-8		
Cadmium	7440-43-9		
Mercury	7439-97-6		
Dimethylfumarate	624-49-7	0.1 mg/kg	Biocides used in packaging in order to prevent mould

Table 4: Regulated substances in packaging