

# FN 940106

## Ban on / declaration of ingredients



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<b>Process</b>	07.1 Supplier relations
<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 all locations of the Festo group which fulfil the following functions: Global Production Center (GPC), Regional Service Center (RSC), Technical Engineering Centers (TEC), National Service Center (NSC), Solution Engineering Center (SEC)
<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>	FN 940106: <u>2010-12</u>
<b>Changes</b>	The following changes have been made with reference to the version dated November 2006: <ul style="list-style-type: none"> <li>a) update to actual RoHS-RL</li> <li>b) update scope</li> </ul>
<b>Quoted standards and other applicable standards</b>	Regulation (EC) No 1907/2006 Directive 2011/65/EC Directive 2006/66/EC Directive 2000/53/EC Directive 94/62/EC

## 1 Definitions

### 1.1 Definitions according to Regulation (EC) No 1907/2006 and Directive 2011/65/EC

#### **Substance**

means a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition.

#### **Preparation**

means a mixture or solution composed of two or more substances.

#### **Article**

means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.

#### **Homogenous material**

means one material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes.

Example: An anodised aluminium consists of an aluminium body and an aluminium oxide coating. As a result, the aluminium component includes two homogenous materials.

### 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 are

- 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 2011/65/EU 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 <b>l</b> ist, 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 European Chemicals Agency (ECHA)<sup>1)</sup> and via the index of European Union Law<sup>2)</sup>.

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).

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

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1) websites of the European Chemicals Agency (ECHA) at <http://echa.europa.eu>

2) websites of European Union Law at <http://eur-lex.europa.eu>.

#### 4. 1. 2 GADSL<sup>3)</sup>

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.

**Allusion:** 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

<sup>3)</sup> The GADSL can be accessed at [www.gadsl.org](http://www.gadsl.org)