

**SCHAEFFLER**

Material Compliance, environmental protection, occupational health

**Prohibited and declarable substances****S 132030-1**

Raw materials, products, components, branded items, purchased parts, mixtures of substances, chemicals, packaging

ICS 13.020; 13.100; 21.100; 55.040; 75.100; 77.080; 77.120; 77.140; 83.060; 83.080; 83.080.20

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Descriptors: Occupational health, environmental protection, substance, ingredients, prohibited substance, restricted substance, negative list, dangerous substance, material recycling, product compliance, material compliance, raw material, product, part, component, branded item, mixture of substances, chemical, packaging, occupational safety, declaration, material declaration, pure substance, mixture, preparation, auxiliary substance, process substance, production chemical, compliance

Material Konformität, Umweltschutz, Arbeitsschutz; Verbotene und Deklarationspflichtige Stoffe; Rohmaterialien, Erzeugnisse, Bauteile, Handelsware, Zukaufteile, Stoffzubereitungen, Chemikalien, Verpackungen

Deskriptoren: Arbeitsschutz, Umweltschutz, Stoff, Inhaltsstoff, Stoffverbot, Verbotener Stoff, Stoffrestriktion, Negativliste, gefährlicher Stoff, Materialrecycling, Produktkonformität, Materialkonformität, Rohmaterial, Erzeugnis, Teil, Komponente, Handelsware, Stoffzubereitung, Chemikalie, Verpackung, Arbeitssicherheit, Deklaration, Materialdeklaration, Reinstoff, Mischung, Gemisch, Zubereitung, Hilfsstoff, Betriebsstoff, Produktionschemikalie, Konformität

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**Revisions**

Compared to the 2011-12-19 edition, the following revisions have been made:  
Standard has been completely revised

**Correction:**

Page 4: link updated for S 296003, Appendix A and B.

Continued on pp. 2 - 16

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In case of doubt, the German-language original should be consulted as the authoritative text.

## 1 Scope of application

This standard defines the requirements with regard to prohibited, declarable and restricted substances along the entire supply chain and for all purchased products (chemicals, mixtures, products, packaging and raw materials) which are delivered to Schaeffler and all its companies and brands worldwide.

Laboratory chemicals and other products not directly related with saleable Schaeffler products or with their transport, storage, production or development (e.g. building cleaners, office supplies) are excluded from this standard.

Compliance with this standard does not release the supplier from the responsibilities given in further applicable legislation and specifications.

## 2 Vocabulary and abbreviations

**Purchased product:** All purchased products within the scope of application of this standard; chemicals, mixtures, products, packaging and raw materials.

**Substance:** Chemical element and its compounds; ingredient.

**Mixture:** Chemical product composed of two or more substances (e.g. lubricants, anti-corrosion agents, electroplating chemicals, cleaners).

**Product** (definition as per REACH Regulation (EC) No. 1907/2006, article 3): Object which is given a specific form, surface or shape by manufacturing which determines its function to a greater extent than its chemical composition.

**Packaging:** A material intended for wrapping products for the purpose of protecting the products, protecting the environment, of transport and/or storage (e.g. canisters, cardboard, cases, bottles, containers, pallets).

**Homogeneous material** (according to Guidance Document of the GADSL, Global Automotive Declarable Substance List): Material that cannot be separated mechanically into individual components. Mechanical separation means physical separation by means of cutting, turning on a lathe, grinding, rubbing off; examples include polymer, metal, metal alloy, coating, lubricant, soldering agent.

## 3 Prohibited and declarable substances

Prohibited substances (chemical elements and their compounds) in terms of this standard are marked in the associated List of Substances (Appendix A of this standard) with a "P" (*Prohibited*). They must not be contained in purchased products delivered to Schaeffler in concentrations above the limit value specified, nor be formed or released in such concentrations by subsequent processing. Exceptional approval of prohibited substances can be agreed in writing on a case-to-case basis, provided that no practicable alternative is available (e.g. methanol used for hardening).

Prohibited substances are subject to a limit value of 0.1 % (w/w) in homogeneous material, unless a different value is specified. Prohibited substances in concentrations below the specified limit value are declarable.

Substances marked in the List of substances of this standard with a "D" (*Declarable*) have to be declared according to the specifications of this standard if their concentration is above the limit value. The limit value of declarable substances is 0.1 % (w/w) in homogeneous material, unless a different value is specified.

Prohibited and declarable substances are listed in the List of substances provided in Appendix A of this standard. The declaration format to be used in each individual case, and the procedure for handling the associated declaration of conformity, is described in the following sections.

Application-specific prohibition and declaration constraints (e.g. for medical products and hygiene products) shall be taken into account as early as the product development phase. Where a special application has been agreed for a product or a mixture, suitable materials and components shall be chosen as early as the product development phase.

Modifications of products and components, and of their materials and formulations, have to be agreed at an early stage with the Schaeffler Purchasing and the Schaeffler Product Development Units in charge.

## 4 Supplier information sheet for Standard S132030-1

The Excel template "Supplier information sheet" is provided in the first sheet of Appendix A to this standard. The supplier information can be transmitted either for individual purchased Schaeffler products or, if declaration requirements are identical (e.g. in the case of identical or comparable materials), for multiple products, series, product families or for the complete Schaeffler delivery scope.

If the supplier information is intended to apply for multiple products with identical declaration requirements, the relevant products have to be listed, in addition to this template, in the sheet "List of purchased products" contained in the same Excel document. If the information is expected to apply for the complete delivery scope, it is sufficient to enter a note that the supplier information applies for all products delivered by the company concerned to Schaeffler as a whole or to a specific Schaeffler unit.

To simplify the completion and evaluation of the supplier information and, where relevant, the list of purchased products, both sheets should be completed directly in the electronic Excel template. Because of the large number of its suppliers, Schaeffler has to rely on an automatic evaluation of both templates; therefore the signed and scanned supplier information sheet should always be returned to Schaeffler together with the duly completed Excel document.

Supplier information can only be accepted if at least the "Basic information" and "Declaration of conformity" zones in the Excel template are completed fully and correctly, and if the document is duly signed.

### **Basic information**

In the basic information zone of the supplier information, particulars about the supplier and a product should be entered. If the supplier information is intended to apply for more than one product, a note referring to the completed list of purchased products is sufficient.

### **Declaration of Conformity**

In the Declaration of Conformity zone, the category of the purchased Schaeffler product is selected. The applicable category should be agreed with the Schaeffler contact (Purchasing, Materials or Application Engineering). All lines marked with "X" in the column of the category concerned have to be completed for the product(s). The text to be entered can also be selected from the predefined drop-down list.

### **Declaration in Schaeffler format**

This table serves for the declaration of substances contained in materials, see also section 5, declaration of substances

## **5 Declaration of substances**

Declarable or prohibited substances contained in the relevant purchased products have to be declared. The minimum information to be entered is the name of the substance, its CAS number, and the concentration in the homogeneous material (unless otherwise required). Regardless of the declaration format, declarations shall be submitted at the time stated in Schaeffler standard S 296001-2 "Quality Assurance Agreement with Production Material Suppliers".

The REACH Regulation (EC) No. 1907/2006 includes a duty to provide information about substances of very high concern which are listed in the so-called SVHC candidate list. Schaeffler suppliers are obliged to inform immediately as soon as they have more current information than that already reported to Schaeffler about substances of the SVHC candidate list which are contained in concentrations above 0.1% w/w in materials supplied by them. If no information about substances in the supplied materials is submitted within 45 days after an update of the SVHC candidate list, it will be assumed that the suppliers have no other information than Schaeffler, and that consequently none of the relevant substances are contained in a concentration of more than 0.1% w/w.

### **IMDS – International Material Data System of the automotive industry**

An entry in the IMDS - the International Material Data System (link: [www.mdsystem.com](http://www.mdsystem.com)) - is mandatory for the declaration of substances contained in products and their materials purchased by Schaeffler for use in the automotive industry, as well as for polymer products. The IMDS ID number stated in the supplier information for the product concerned has to be entered under Basic information. If the supplier information is intended to apply for more than one product, a note referring to the associated list of purchased products is sufficient. In this case, the IMDS ID numbers are entered in the appropriate column of that list.

The IMDS data must be compliant with the IMDS rules applicable at the moment of its creation. Moreover, the Schaeffler requirements for IMDS entries stated in Appendix B of this standard, the "IMDS Guideline", have to be respected.

A declaration in the form of a data sheet in the IMDS does not constitute an exceptional approval of otherwise prohibited substances. If a substance to be declared cannot yet be selected in the IMDS menu, the "Basic Substance Request" function in the IMDS in menu can be used to request that this substance be added to the database.

### **BOMcheck**

A declaration in the BOMcheck online system as RCD ("Regulatory Compliance Declaration") is mandatory for the declaration of substances contained in products and their materials purchased by Schaeffler which are to be transferred neither in the IMDS nor in Schaeffler format.

### **Declaration in the Schaeffler format**

The declaration in the Schaeffler format has to be completed where declarable or prohibited substances in purchased Schaeffler products have to be declared, and neither the IMDS (International Material Data System; link see below) nor BOMcheck (online material data system; link see below) can be used for.

Category	Examples	Product / Application	Declaration format
<b>A</b>	<u>Raw materials</u> : e.g. strips, sheets, tubes, bars, wires, plastic granules	For the automotive industry	<b>IMDS declaration</b>
	<u>Chemicals/mixtures</u> : e.g. lubricants	For other applications than the automotive industry	<b>either Schaeffler format or BOMcheck declaration</b>
	<u>Products</u> : e.g. components, coated components, seals, cages, rolling elements, rolling bearings, plain bearings, friction material	Made of polymer material (regardless of application)	<b>IMDS declaration</b>
	<u>Packaging material</u> : e.g. cardboard, drying agents, pallets, wooden cases, plastic packaging	Packaging material	<b>Schaeffler format</b>
<b>B</b>	<u>Products</u> : e.g. tools, machine components	All products of this category (including packaging material)	<b>Schaeffler format</b>
	<u>Chemicals/mixtures</u> : e.g. lubricants, electroplating chemicals, anti-corrosion agents		
	<u>Packaging material</u> : e.g. cardboard, pallets, bottles, canisters, drums		
<p><b>Category A</b> = products that remain in or on saleable Schaeffler products.  <b>Category B</b> = products that are used in manufacturing processes &amp; and maintenance but do not remain in saleable Schaeffler products.  The applicable category has to be agreed with the Schaeffler contact in charge (Purchasing, Materials or Application Engineering)!</p>			

#### Customer- or industry-specific format

If Schaeffler has to forward such information to a customer in a format different from those stated above, the supplier shall - in special cases and subject to agreement - provide such declarations in the customer- or industry-specific format required.

#### Other applicable standards, standards cited and documents

S 296001	Quality Assurance Agreement with Production Material Suppliers
S 296001-2	Quality Assurance Agreement with Production Material Suppliers; Production Process and Product Release Procedure
S 296002	Quality Assurance Agreement with Tooling Suppliers
S 296003	Quality Assurance Agreement with Packaging Material Suppliers
	Link: <a href="https://www.schaeffler.de/content.schaeffler.de/en/schaeffler-germany/supplier/quality-requirements/index.jsp">https://www.schaeffler.de/content.schaeffler.de/en/schaeffler-germany/supplier/quality-requirements/index.jsp</a>
GADSL	Global Automotive Declarable Substance List; Link: <a href="http://gadsl.org/">http://gadsl.org/</a>
IMDS	International Material Data System; Link: <a href="http://www.mdssystem.com">www.mdssystem.com</a>
BOMcheck	Online material data system; Link: <a href="http://www.bomcheck.net">www.bomcheck.net</a>
RoHS Directive 2011/65/EU	Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment; Link: <a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32011L0065:DE:NOT">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32011L0065:DE:NOT</a>
ELV Directive 2000/53/EC	Directive on End-of-Life Vehicles; Link: <a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32000L0053:DE:NOT">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32000L0053:DE:NOT</a>
REACH Regulation (EC) No. 1907/2006	Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; Link: <a href="http://echa.europa.eu/legislation/reach_legislation_en.asp">http://echa.europa.eu/legislation/reach_legislation_en.asp</a>
CLP Regulation (EC) No. 1272/2008	Regulation on the classification, labeling and packaging of substances and mixtures; Link: <a href="http://echa.europa.eu/legislation/classification_legislation_en.asp">http://echa.europa.eu/legislation/classification_legislation_en.asp</a>
VKIS-VSI-IGM	VKIS-VSI-IGM Substances list; Link: <a href="http://www.vsi-schmierstoffe.de">www.vsi-schmierstoffe.de</a>

#### Appendix A (normative)

Supplier information: To be completed directly in Excel format. - Link:  
[https://www.schaeffler.de/content.schaeffler.de/en/schaeffler-germany/supplier/environmental\\_protection\\_work\\_safety/index.jsp](https://www.schaeffler.de/content.schaeffler.de/en/schaeffler-germany/supplier/environmental_protection_work_safety/index.jsp)

#### Appendix B (normative)

IMDS Guideline

Link: [https://www.schaeffler.de/content.schaeffler.de/en/schaeffler-germany/supplier/environmental\\_protection\\_work\\_safety/index.jsp](https://www.schaeffler.de/content.schaeffler.de/en/schaeffler-germany/supplier/environmental_protection_work_safety/index.jsp)

## Supplier Information Sheet for Standard S 132030-1

### Basic information

Please complete directly in the Excel sheet!

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Name of the supplier:	Supplier contact person:
Product * <sup>1</sup> :	Contact (e-mail, phone):
Supplier material number * <sup>1</sup> :	Date, name:
Schaeffler product designation * <sup>1</sup> :	
Schaeffler material number	Signature, stamp (where applicable)
SAP 13-digit * <sup>1</sup> :	
IMDS ID number (where applicable) * <sup>1</sup> :	

\*<sup>1</sup> = A second Excel sheet "List of purchased products" is provided for completing this form for multiple products

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### Declaration of conformity

Please complete directly in the Excel sheet!

Material Compliance information for purchased Schaeffler products which						
- <b>Category A:</b> remain in or on saleable Schaeffler products						
- <b>Category B:</b> are used in manufacturing processes & and maintenance but do <u>not</u> remain in saleable Schaeffler products						
<i>The category applicable for the product has to be agreed with the Schaeffler contact in charge (Purchasing, Materials or Application Engineering, Material Specialist)!</i>						
No.	Material compliance requirements for purchased Schaeffler products <small>- Details see List of Substances with status 19 December 2011 -</small>	Category		Is the requirement applicable for purchased products?* <sup>2</sup>	Is/are the purchased product(s) compliant?* <sup>2</sup>	Declaration requirements according to overview on page 4 Table 1?* <sup>2</sup> <small>Possible selections: IMDS, BOMcheck, Schaeffler format, No declarable substances</small>
		A	B			
<b>Assigned / agreed category for the product(s)</b> <small>- Please check or select A, B or both -</small>						
<i>The applicable category has to be agreed with the Schaeffler contact (Purchasing, Materials or Application Engineering)!</i>						
1	<b>Schaeffler generally prohibited substances</b> <small>- applies also to packaging material</small>					
2	<b>Schaeffler restricted substances</b> <small>- applies also to packaging material</small>					
3	<b>REACH Regulation (EC) No. 1907/2006</b> <small>- incl. SVHC and Annex XVII - applies also to packaging material</small>					
4	<b>Schaeffler GADSL requirements</b> <small>Global Automotive Declarable Substance List - Is a reference list even for products not intended for use in the automotive industry</small>					
5	<b>ELV Directive 2000/53/EC on End-of-Life Vehicles</b> <small>- for purchased products for hte automoive sector</small>					
6	<b>RoHS Directive 2011/65/EU</b> <small>- for purchased NON-Automotive products</small>					
7	<b>Further specifications for chemicals and mixtures</b> for use in manufacturing, maintenance and in Schaeffler products <small>- does not apply to semi-finished products &amp; products in general</small>					
8	<b>Further specifications for packaging</b> <small>- except for packaging returned to the supplier</small>					

\*<sup>2</sup> = Complete this column with default text from the Excel form (select from drop-down list in cell)!

### Declaration in Schaeffler format - Alternative to IMDS and BOMcheck -

Please complete directly in the Excel form!

Declarable substances <small>- according to List of substances list dated 19 Dec.2011 -</small>	CAS number	Substance concentration	Unit acc. to List of substances	Remarks* <sup>3</sup>
e.g. Di-(2-ethylhexyl) phthalate	117-81-7	e.g. 2,5	% (w/w)	e.g. in elastomer seals

\*<sup>3</sup> = example for prohibited substances: Reason; affected material is present in the product; RoHS or ELV exception; for chemicals & mixtures: analytical method;





## List of Substances

- Status of 19 Dec. 2011 -

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Seq. no.	Relevant substances	CAS number	Classification	Limit value see footnote a)	Remarks / legal background	Application example
<b>1</b>	<b>Schaeffler generally prohibited substances</b> - applies to all products, chemicals, mixtures and also to packaging material -					
	Substances of the following hazard classes: - Carcinogenicity, Carc. 1A, Carc. 1B (H350 et seqq.) - Germ cell mutagenicity, Mutag. 1A, Mutag. 1B (H241) - Reprod. toxicity, Repr. 1A, Repr. 1B (H360 et seqq.)	-	P	b)	CLP Regulation (EC) No. 1272/2008 - see remark in footnote b) -	
	Substances with acute toxicity, Acute Tox. 1, 2, 3 (was: highly toxic or toxic substances)	-	P	b)	CLP Regulation (EC) No. 1272/2008 - see remark in footnote b) -	-
	Flammable substances with H-statements H220, H222, H224 (was: highly combustible substances)	-	P	b)	CLP Regulation (EC) No. 1272/2008 - see remark in footnote b) -	-
	Explosive substances with H-statements H200, H201, H202, H203, H204, H240, H241 (was: explosive substances)	-	P	b)	CLP Regulation (EC) No. 1272/2008 - see remark in footnote b) -	-
	Radioactive substances, all compounds including impurities in metals	-	P		Radiological Protection Ordinance (StrSchV), Atomic Energy Act	e.g. impurities in steel
	Substances hazardous to the ozone layer	-	P		EU Regulation (EC) No. 1005/2009 on substances depleting the ozone layer, Clean Air Act Classes I & II	-
<b>2</b>	<b>Schaeffler restricted substances</b> - applies to all products, chemicals, mixtures and also to packaging material -					
	Substances of the following hazard classes: - Carcinogenicity, Carc. 2 (H351) - Germ cell mutagenicity, Mutag. 2 (H241) - Reprod. toxicity, Repr. 2 (H361 et seq.)	-	D	b)	CLP Regulation (EC) No. 1272/2008 - see remark in footnote b) -	-
	Substances causing respiratory /skin sensitization	-	D	b)	CLP Regulation (EC) No. 1272/2008 - see remark in footnote b) -	e.g. metal alloys (nickel), paints, glues
	Conflict minerals (tantalum, tin, tungsten, gold and derivatives) from the Democratic Republic of the Congo and adjacent countries	-	D		United States H.R. 4173 - "Conflict Minerals" resp. "Dodd-Frank Act": Section 1502 of H.R. 4173 4173	e.g. steel
	Alkyl phenols and alkyl phenol ethoxylates	-	D		-	e.g. plastics, cleaners
	Azo dyes with aromatic amines	-	P			e.g. plastics, coatings, resins, paints, varnishes, dyes
	Halogenated hydrocarbons (incl. substances of the POP Regulation (EC) No. 850/2004)	-	D		Regulation on persistent organic pollutants (EC) No. 850/2004,	e.g. flame retardants, solvents, lubricants, plastics
	Nitrosamines or substances forming nitrosamines by reaction	-	D		-	e.g. anti-corrosion agents, cooling lubricants (secondary amines)
	Organically bound silicon	-	D		10 ppm for lubricants and lubricating oils, for other substances the requirements of the VKIS-VSI-IGM substance list apply	e.g. anti-corrosion agents, lubricants



Seq. no.	Relevant substances	CAS number	Classification	Limit value see footnote a)	Remarks / legal background	Application example
	<b>Biocides</b>	-	D		Chemical Prohibitions Ordinance (ChemVerbotsV); Regulation (EU) No. 528/2012; only biocides of Schaeffler Group standard S 132050-1 may be used for metal treatment liquids	e.g. anti-corrosion agents, paints, varnishes, wooden packaging
	<b>Tricresyl phosphate and isomers (TCP)</b>	78-30-8; 1330-78-5	D		-	e.g. plasticizers and flame retardants in plastics; lubricants
	<b>4,4 Isopropylidene diphenol (bisphenol A)</b>	80-05-7	D		-	e.g. plastics, resins, paints, varnishes, glues
	<b>Animal-based raw materials</b>	-	D		most recent EU publication	e.g. lubricants
	<b>Polyvinylchloride (PVC)</b>	9002-86-2	D		-	e.g. cable insulations, packaging material
	<b>Brominated flame retardants, all compounds</b>					
	<b>Polybrominated biphenyls (PBB)</b>	Substance group	P		-	e.g. plastics
	<b>Polybrominated diphenyl ether (PBDE) with deca-, penta- and octabromodiphenyl ether</b>	Substance group	P		-	e.g. plastics
	<b>Tetrabromobisphenol A (TBBPA)</b>	79-94-7	D		-	e.g. flame retardants in plastics and electrical / electronic components
	<b>Other bromated flame retardants</b>	-	D		-	-
	<b>Polycyclic aromatic hydrocarbons (PAH)</b>					
	<b>Benzo(a)pyrene (BaP)</b>	50-32-8	P		PAHs as defined in the "Priority Pollutants" list of the EPA; Mixtures - BaP max. 50 ppm (EPA Method 610) - Sum PAHs 3% DMSO extract for the base oil (Method IP 346)	e.g. plastics, lubricants, paints, coatings
	<b>Total of all EPA PAHs</b>	Substance group	D		Polymers, paints, coatings: - BaP max. 20 ppm (Method ZEK01.2-08) - Sum PAHs max. 200 ppm (Method ZEK01.2-08)	e.g. plastics, lubricants, paints, coatings
	<b>Phthalates, all compounds</b>					
	<b>Di-(2-ethylhexyl) phthalate (DEHP), dioctyl phthalate (DOP)</b>	117-81-7	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics

Seq. no.	Relevant substances	CAS number	Classification	Limit value see footnote a)	Remarks / legal background	Application example
	<b>Di-n-octyl phthalate (DNOP)</b>	117-84-0	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics
	<b>Dibutyl phthalate (DBP)</b>	84-74-2	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics
	<b>Butylbenzyl phthalate (BBP)</b>	85-68-7	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics
	<b>Diisononyl phthalate (DINP)</b>	28553-12-0	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics
	<b>Diisodecyl phthalate (DIDP)</b>	26761-40-0	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics
	<b>Bis(2-ethylhexyl) isophthalate (DOIP)</b>	137-89-3	P		-	e.g. plasticizers in plastics
	<b>Bis(2-methoxyethyl) phthalate</b>	117-82-8	P		-	e.g. plasticizers in plastics
	<b>Diphenyl phthalate</b>	84-62-8	P		-	e.g. plasticizers in plastics
	<b>Dipentyl phthalate</b>	131-18-0	P		-	e.g. plasticizers in plastics
	<b>Diisopentyl phthalate</b>	605-50-5	P		-	e.g. plasticizers in plastics
	<b>Bis(3,5,5-trimethylhexyl) phthalate</b>	14103-61-8	P		-	e.g. plasticizers in plastics
	<b>Diisobutyl phthalate (DIBP)</b>	84-69-5	P		-	e.g. plasticizers in plastics
	<b>1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich</b>	71888-89-6	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics
	<b>1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters</b>	68515-42-4	P		Regulation (EC) No. 1907/2006 (with all relevant annexes and amendments)	e.g. plasticizers in plastics
	<b>Other phthalates</b>		D		-	e.g. plasticizers in plastics
	<b>Organic tin compounds, all compounds</b>					
	<b>Triorganic tin compounds</b>		P		Regulation (EC) No. 1907/2006 (Annex XVII), Decision 2009/425/EC	e.g. plastics, resins, paints, varnishes, dyes
	<b>Other organic tin compounds</b>		D		-	e.g. plastics, resins, paints, varnishes, dyes
<b>3</b>	<b>REACH Regulation (EC) No. 1907/2006 - applies to all products, chemicals, mixtures and also to packaging material -</b> Links see last column					
	<b>Substances of the SVHC Candidate List according to REACH</b>		D	0,1% (w/w) per product	Up-to-date version of the candidate list applicable at the moment of declaration <a href="http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp">http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp</a>	
	<b>Substances requiring authorization listed in Annex XIV</b>		P		The substances requiring authorization listed in Annex XIV are prohibited in Schaeffler products, unless their use has been explicitly authorized for the application. <a href="http://echa.europa.eu/chem_data/authorisation_process/annex_xiv_rec_en.asp">http://echa.europa.eu/chem_data/authorisation_process/annex_xiv_rec_en.asp</a>	

Seq. no.	Relevant substances	CAS number	Classification	Limit value see footnote a)	Remarks / legal background	Application example
	<b>Bans on use as per REACH Annex XVII</b>		P		In the most current version valid at the time of issuing the declaration <a href="http://echa.europa.eu/legislation/reach_legislation_en.asp">http://echa.europa.eu/legislation/reach_legislation_en.asp</a>	
<b>4</b>	<b>GADSL - Global Automotive Declarable Substance List</b> <i>- applies to all purchased products to be used in saleable Schaeffler products, even for products not intended for use in the automotive sector -</i> In the most current version valid at the time of issuing the declaration					
<b>5</b>	<b>ELV Directive 2000/53/EC on End-of-Life Vehicles</b> - <i>applies only to purchased products to be used in saleable Schaeffler products in the automotive sector -</i> In the most current version valid at the time of issuing the declaration					
<b>6</b>	<b>RoHS Directive 2011/65/EU (was 2002/95/EC) on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment</b> <i>- applies only to purchased products to be used in saleable Schaeffler products but not in the automotive sector -</i> In the most current version valid at the time of issuing the declaration					
<b>7</b>	<b>Further specifications for chemicals and mixtures for use in manufacturing, maintenance and in Schaeffler products</b> <i>- does not apply to semi-finished products &amp; products in general -</i>					
	<b>VKIS-VSI-IGM List of materials</b> <i>- Analogously applicable for all chemicals and mixtures</i>	-	-	<a href="http://www.vsi-schmierstoffe.de/fileadmin/template/VSI-Verwaltung/Texte/VKIS-VSI-IGM_Liste_Stand_2013-12-11.pdf">http://www.vsi-schmierstoffe.de/fileadmin/template/VSI-Verwaltung/Texte/VKIS-VSI-IGM_Liste_Stand_2013-12-11.pdf</a>  <a href="http://www.vsi-schmierstoffe.de">www.vsi-schmierstoffe.de</a>		e.g. anti-corrosion agents, lubricants, electroplating chemicals
	<b>Phenol</b>	108-95-2	P	20 ppm	-	-
	<b>Copper and its compounds</b>	-	P	10 ppm	Prohibited only in metal treatment liquids; for other applications the VKIS-VSI-IGM List of substances applies <a href="http://www.vsi-schmierstoffe.de">www.vsi-schmierstoffe.de</a>	
	<b>Benzotriazole</b>	95-14-7	D		allergenic potential	e.g. cooling lubricants, anti-corrosion agents
	<b>Metals and metal compounds (Cu, As, Pb, Hg, Cd, Cr(VI), Ni, Sn, Be, Co, Ti, Sb, Mo, Zn)</b>	-	D	each 10 ppm	-	-
	<b>Colophony</b>	-	D		-	-
	<b>Perfluoro compounds</b>	-	D		-	-
	<b>Polyalkylen glycols</b>	-	D		-	-
	<b>Chlorides</b>	-	D	20 ppm	-	-
<b>8</b>	<b>Further specifications for packaging</b> <i>- applies to all packaging material used in production and for saleable Schaeffler products, except for packaging returned to the supplier -</i>					
	<b>Lead, cadmium, mercury, chromium(VI) in packaging</b>		P	Sum of all 4 elements max. 100 ppm	Packaging and Packaging Waste Directive 94/62/EC	e.g. plastic packaging, painted and varnished packaging
	<b>Arsenic compounds</b>		P		Directive 76/769/EEC	e.g. wooden packaging material
	<b>Dimethyl fumarate (DMF)</b>	624-49-7	P	1 mg/kg	Resolution 2009/251/EC	e.g. wooden or plastic packaging, painted and varnished packaging

**Footnotes:**

a) Limit value 0,1 % w/w (1000 ppm) in the homogeneous material, unless otherwise specified. Where the legal provision stipulates a more stringent value, that value applies!

b) Remark: These specifications of CLP Regulation (EC) No. 1272/2008 are relevant for substances with the above classification and for mixtures containing these substances. They are not relevant for products containing such a substance. b) Allowed limit according to the labeling obligations pursuant the EU chemicals legislation; CLP Regulation (EC) No. 1272/2008 Annex VI (Annex I of Directive 67/548/EEC)

Supplier Information Sheet for Standard S132030-1						
Basic information						
Please complete directly in the Excel sheet! <b>SCHAEFFLER</b>						
Name of the supplier:	Supplier contact person:					
Product *1:	Contact (e-mail, phone):					
Supplier's material number *1:	Date, name:					
Schaeffler product designation *1:	Signature, stamp (where applicable)					
Schaeffler material number						
SAP 13-digit *1:						
IMDS ID number (where applicable) *1:						
*1 = A second Excel sheet "List of purchased products" is provided for completing this form for multiple products						
SCHAEFFLER Declaration of conformity						
Please complete directly in the Excel sheet!						
Material Compliance information for purchased Schaeffler products which						
- <b>Category A:</b> remain in or on saleable Schaeffler products						
- <b>Category B:</b> are used in manufacturing processes & and maintenance but do <u>not</u> remain in saleable Schaeffler products						
The <b>category</b> applicable for the product has to be agreed with the Schaeffler contact in charge (Purchasing, Materials or Application Engineering)!						
No.	Material compliance requirements for purchased Schaeffler products <small>- Details see List of Substances with status 19 December 2011 -</small>	Category		Is the requirement applicable for purchased products? *2	Is/are the purchased product(s) conforming? *2	Declaration requirements according to overview on page 4 Table 1? *2 <small>Possible selections: IMDS, BOMcheck, Schaeffler format, No declarable substances</small>
		A	B			
Allocated / harmonized category for the product / the products <small>- Please check or select A, B or both -</small>				The applicable category has to be agreed with the Schaeffler contact (Purchasing, Materials or Application Engineering)!		
1	<b>Schaeffler generally prohibited substances</b>					
2	<b>Schaeffler restricted substances</b> <small>- applies also to packaging material</small>					
3	<b>REACH Regulation No. 1907/2006/EC</b> <small>- incl. SVHC and Annex XVII - applies also to packaging material</small>					
4	<b>Schaeffler GADSL requirements</b> <small>Global Automotive Declarable Substance List - Is a reference list even for products not intended for use in the automotive industry</small>					
5	<b>ELV Directive 2000/53/EC on End-of-Life Vehicles</b> <small>- for purchased Automotive products</small>					
6	<b>RoHS Directive 2011/65/EU</b> <small>- for purchased NON-Automotive products</small>					
7	<b>Further specifications for chemicals and mixtures</b> for use in manufacturing, maintenance and in Schaeffler products <small>- does not apply to semi-finished products &amp; products in general</small>					
8	<b>Further specifications for packaging</b> <small>- except for packaging returned to the supplier</small>					
*2 = Complete this column with predefined text from the Excel form (select from drop-down list in cell)!						
Declaration in Schaeffler format - Alternative to IMDS and BOMcheck -						
Please complete directly in the Excel form!						
Declarable substances <small>- according to List of substances list dated 19 Dec.2011 -</small>	CAS number	Substance concentration	Unit acc. to List of substances	Remarks *3		
e.g. Di-(2-ethylhexyl) phthalate	117-81-7	e.g. 2,5	% (w/w)	e.g. in elastomer seals		
*3 = example for prohibited substances: Reason: material is present in the product; RoHS or ELV exception: for chemicals & mixtures; analysis method.						

Basic information about the supplier and the product. A second Excel sheet "List of purchased products" is provided for completing the supplier information sheet for multiple products

Selection of a category for purchased Schaeffler products. The category applicable for a product has to be agreed together with the Schaeffler contact in charge (Purchasing, Application Engineering or in case of chemicals/mixtures with the contact person of the product group)!

For purchased Schaeffler products of category A, the cells provided for No. 1 to 8 have to be completed from the drop-down list. For purchased Schaeffler products of category B, only No. 1 to 3 and 7 to 8 have to be completed.

The last three columns of the table have to be completed from the drop-down list. Only the three cells in which "Yes" is entered by default cannot be changed because the requirements which they refer to have to be fulfilled by all purchased Schaeffler products.

The Declaration in Schaeffler format has to be completed if declarable or prohibited substances in purchased Schaeffler products have to be reported (in the last column of the "Declaration of conformity" "Schaeffler format" is selected at least once. If the declaration is to be transferred as an IMDS entry, the IMDS ID number has to be entered in the "Basic information" section above, or in the case of multiple products in the table sheet "List of purchased products".

## **Appendix B - IMDS Guideline for Suppliers**

### **1. Purpose:**

This document is a guideline to ensure the data quality in the IMDS and describes the requirements for IMDS material data sheets (hereinafter called MDS) submitted to Schaeffler by suppliers of the Schaeffler Group. The following contact persons are available for questions:  
IMDS.purchase@schaeffler.com

### **2. Scope of application:**

All Schaeffler suppliers required to submit IMDS data according to the specifications of S132030-1 have to comply with the requirements given therein. Current IMDS data has to be provided for all initial series sample inspections. Initial series sample inspections will not be approved without an accepted IMDS entry. Suppliers must ensure that the IMDS data are provided unsolicited and in a timely manner.

Depending on the final customer and legal relevance (type approval), IMDS data is needed for prototypes, i.e. components in the development phase, or in the phases preceding the production start. Here again, suppliers have to ensure, after receipt of the Schaeffler order, that these data are provided in good time and in conformity with the applicable IMDS guidelines and customer requirements.

### **3. Rules:**

All MDSs for parts purchased by Schaeffler have to be sent to the IMDS **Org-ID 282**.

The remarks below on creation of MDSs are based on the currently valid IMDS recommendations and on the specific requirements of the automotive industry. In addition to this guideline, all applicable recommendations and customer requirements have to be strictly respected and implemented.

The currently valid recommendations can be viewed, after accessing the system, in the "Guidelines" menu under "Recommendations". Special requirements of the automotive industry and further information on the IMDS can be found on the public pages under the menu item "FAQ".

### **3.1 Selection of material modules:**

In principle, materials shall be reported in the MDS in their final condition. Material compounds reacting with each other or intermediate reaction products must not be reported.

as a matter of priority the declaration requirements according to GADSL (Global Automotive Declarable Substance List: [www.gadsl.org](http://www.gadsl.org)) have to be complied with.

For standard materials, the material modules of the IMDS Steering Committee published according to IMDS Rec. 001 shall be used. Exceptions are only possible if declaration requirements cannot be met by these modules. In this case, a note to this effect has to be entered in the field "Remarks" in the material module.

### **3.2 Language:**

The main system language is English. This means all entries have to be made in English. Additional entries in German language are optionally possible. Entries in other languages cannot be accepted.

### **3.3 Specific requirements:**

The main purpose of the requirements listed in this section is to ensure that the data sheets can be unambiguously correlated to a product, and that the requirements of Rec. 001 with regard to the description of components are complied with.

#### **3.3.1 Weight tolerance**

A maximum weight tolerance of 2 % shall be kept. Exceptions to this rule are only acceptable where the component drawing explicitly states a higher tolerance (mass tolerance); otherwise an explanation regarding the reason why the chemical or geometrical characteristics make a deviation from the weight tolerance necessary.

#### **3.3.2 "Company data"**

The following fields have to be completed:

„Part/Item No.“, „Description“, „Drawing No.“, „Drawing dated“, „Supplier Code“.

Completion of the other fields is optional.

Part/item number

The Schaeffler part number has 13 digits, with the last four digits separated by a "-":  
Example: 054174171-0000

Component description

The description of the component must be unambiguous and correspond to the most current Schaeffler drawing.

The use of supplier specific data, such as internal numbers, is not permitted.

The description must be entered in English. Where the English description is not stated in the drawing, the translation table provided at the end of this guideline may be used.

If the required term is not contained in the translation table, the contact persons named above will provide assistance.

Example: Sprocket Camshaft / Kettenrad Nockenwelle

Description of subcomponents

The subcomponents in the IMDS must be described generically and unambiguously, and at least in English.

Drawing number

The Schaeffler drawing number is brand-specific. This information can be found in the "Document" field of the drawing.

Example for INA and FAG: **F-348096.01.KRAD**; for LuK: **L-03131-0E96-01**

Version / Date

The relevant date is the drawing date which is the basis for series production sampling.



Example: 4/25/2008

Supplier no.

The number to be entered here is the specific supplier number assigned by Schaeffler. The supplier number has a 10-digit format. If necessary, the leading digits are filled with zeros. The supplier number can be found, for example, in the purchase order. Please do not use the DUNS number.

Example: 0000012345

Examples of drawing title blocks are shown below. The IMDS-relevant information is highlighted:

<b>Part/item number</b>		<b>Version / Date</b>	
Umfeld / Add. Data			
Material/Sache / Item <b>054174171-0000</b>		Ref.-Nr. F-348096.01.KRAD	Bezeichnung / Designation 9,525 x 23,000 x 25,000 M
Version 00	Datum 2008-04-25	Änderungsbeschreibung / Modification description	
Vor-Vers. Prev. ver.	Änd.-Nr. Modif. No. 281223	 © 2006 Schaeffler KG	
Maßstab Scale 2:1	Benennung / Description <b>Kettenrad Nockenwelle sprocket camshaft</b>		Zeichner / Prep. by S. Witke
Maße ohne Toleranzen General tolerances ISO 2768-mK			Prüfer / Chkd by R. Fuhrmann
Tolerierung Tolerancing DIN 7167	Erweiterte Benennung / Additional description		Labor/Büro / Lab./office A14 AM/HZA-LK6
Masse / Mass 317 g	Werkstoff, Halbzeug / Mater., semi-finished prod.		
Blatt Sheet 1 / 1	Format Size A1	Bestellzeichnung Purchased supplier drawing	Dokument / Document <b>EDP F-348096.01 A00</b>
		 © 2011 LUK GmbH & Co. KG	
<b>Designation</b>		<b>Drawing no.</b>	
Benennung / Description <b>Nabe f. Verstem. Hub for Stamping</b>		Zeichner / Prep. by L. Krüger	
Erweiterte Benennung / Additional description		Prüfer / Chkd by U. Weller	
		Labor/Büro / Lab./office L41 ALKBHL-LKSK	
Werkstoff, Halbzeug / Mater., semi-finished prod. C45 O_812_01400			
Fertigtezeichnung Finished-part drawing		Dokument / Document <b>EDP L-03131-0E96-01 000</b>	



### **3.4 IMDS ID:**

The IMDS ID numbers are assigned according to the rules of the IMDS Rec. 001, Section 3.2.2. 001, Section 3.2.2.

An MDS with a new IMDS ID has to be created for each component with a new component number. Where a correction of an existing MDS is to be created, e.g. after an MDS has been rejected or the index of the drawing number has changed, the MDS has to be created as a new version of the existing IMDS ID number.

MDSs whose ID numbers are not assigned in the correct way will not be accepted.

The following copying functions are available in the IMDS:

⇒ Copying: Creates a 1:1 copy of the existing record with a new ID number

Type	Component number	ID number
F-348096.01	054174171-9001	<b>123456 / 1</b>
F-348096.01	054174171-0000	<b>456789 / 1</b>

⇒ new version: Creates a 1:1 copy of the existing record with a new ID number; only the version number increases.

Type	Component number	ID number
F-348096.01	054174171-0000	456789 / 1
F-348096.01	054174171-0000	456789 / 2

### **3.5 Revisions:**

Revisions of MDSs can be necessary for various reasons:

a) Legally stipulated declaration requirements (e.g. REACH SVHC substances) or GADSL have to be updated.

Schaeffler suppliers are expected to meet these declaration requirements promptly and without being requested, because Schaeffler has to fulfill information obligations towards the customer also.

b) Rejections or other requests by Schaeffler.

Data sheets rejected by Schaeffler have to be corrected directly on the basis of the reason for rejection.

### **3.6 Rejections:**

In case of rejection of a material data sheet, a detailed reason for the rejection is provided.

Basic questions on the use of the IMDS recommendations can be clarified with the IMDS-helpdesk. If you still have any questions, please contact the persons in charge. Contact information can be found below the reason for rejection, or in e-mail received. Data revisions have to be done as quickly as possible, and take into account all reasons for rejection.

### **Translation table for the description of components**

DE	EN	EN	DE
Anschlagpuffer	Travel stop	Arc spring	Bogenfeder
Arretierbolzen	Plunger	Assembly	Zusammenbau
Arretierung	Detent pin	Axial ring	Axialring
Aussenring	Outer ring	Backplate	Grundplatte
Axialring	Axial ring	Ball	Kugel
Bogenfeder	Arc spring	Ball cage	Kugelkaefig
Bolzen	Pin	Base frame	Grundkoerper
Buechse	Bush	Bellows	Faltenbalg
Dichtkappe	Seal cap	Belt pulley	Riemenscheibe
Dichtring	Sealing ring	Bolt	Schraube
Dichtung	Seal	Bolt w.shoulder	Stufenbolzen
Druckfeder	Coil spring	Bush	Buechse
Druckstueck	Release plat. cup	Bushing washer	Reibring
Duese	Nozzle	Cage	Kaefig
Faltenbalg	Bellows	Central plate	Zentralplatte
Feder	Spring	Chain tensioner	Kettenspanner

DE	EN	EN	DE
Fett	Grease	Chain tensioner hydraulic	Kettenspanner hydraulisch
Freilaufhuelle	Drawn cup	Circlip	Schnapping
Fuehrungshuelle	Guiding tube	Clutch master	Kupplungsgeber
Gehaeuse	Housing	Coil spring	Druckfeder
Gewebe	Fabric	Cover	Kappe
Gewinding	Threaded ring	Detent pin	Arretierung
Grundkoerper	Base frame	Drawn cup	Freilaufhuelle
Grundplatte	Backplate	Fabric	Gewebe
Haltefeder	Retaining spring	Flinger type shield	Schleuderscheibe
Halteklammer	Locking clamp	Friction sleeve	Reibhuelle
Hebel	Lever arm	Gear shift lever	Schalthebel
Innenring	Inner ring	Grease	Fett
Kaefig	Cage	Guiding tube	Fuehrungshuelle
Kappe	Cover	Housing	Gehaeuse
Kettenrad Nockenwelle	Sprocket camshaft	Hub	Nabe
Kettenspanner	Chain tensioner	Hub flange	Nabenflansch
Kettenspanner hydraulisch	Chain tensioner Hydraulic	Inner ring	Innenring
Kolben	Piston	Lever arm	Hebel
Kolbenstangenanschlag	Push rod end stp	Locking clamp	Halteklammer
Kugel	Ball	Low pressure pipe	Nachlaufschlauch
Kugelkaefig	Ball cage	Needle	Nadel
Kupplungsgeber	Clutch master	Nozzle	Duese
Mitnehmerscheibe	Retainer plate	Oil	Oel
Nabe	Stroke	Outer ring	Aussenring
Nabenflansch	Hub flange	Pin	Bolzen
Nachlaufschlauch	Low pressure pipe	Piston	Kolben
Nadel	Needle	Plate	Platte
Niet	Rivet	Plug	Verschlussstopfen
Oel	Oil	Plunger	Arretierbolzen
Platte	Plate	Pole core	Polkern
Polkern	Pole core	Push rod end stp	Kolbenstangenanschlag
Reibhuelle	Friction sleeve	Release plat. cup	Druckstueck
Reibring	Bushing washer	Restraint cylinder	Rueckhaltebuchse
Riemenscheibe	Belt pulley	Retainer plate	Mitnehmerscheibe
Ring	Ring	Retaining ring	Sprengring
Rueckhaltebuchse	Restraint cylinder	Retaining spring	Haltefeder
Schalthebel	Gear shift lever	Ring	Ring
Scheibe	Washer	Rivet	Rivet
Schiebemuffe	Sleeve	Rolling element	Waelzkoerper
Schleuderscheibe	Flinger type shield	Se.Flyw.casting	Schwungscheibe
Schnappkaefig	Snap cage	Seal	Dichtung
Schnapping	Circlip	Seal cap	Dichtkappe
Schraube	Bolt	Sealing ring	Dichtring
Schweissring	Welding ring	Sleeve	Schiebemuffe
Schwungscheibe	Se.Flyw.casting	Snap cage	Schnappkaefig
Sprengring	Retaining ring	Spindle	Shaft
Stator	Stator	Spring	Feder
Stufenbolzen	Bolt w.shoulder	Sprocket camshaft	Kettenrad Nockenwelle
Ventil	Valve	Stator	Stator
Verschlussstopfen	Plug	Threaded ring	Gewinding
Waelzkoerper	Rolling element	Travel stop	Buffer stop
Welle	Spindle	Valve	Ventil
Zentralplatte	Central plate	Washer	Scheibe
Zusammenbau	Assembly	Welding ring	Schweissring