

# Prohibition and declaration of substances in products, components, materials and preparations

Folder: N 2580 Prohibition and declaration of substances  
Technical responsibility: vom2si C/PS (400)



**BOSCH**

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In case of doubt the original language edition of this Bosch-Norm applies. The comma is used as decimal marker.					

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## 1 Scope and purpose

This Bosch-Norm applies to all products (trading goods), components, materials and preparations that end up in our product, in addition to **N 2580-1**, and is applied in the Automotive Technology Business Sector (UBK).

## 2 Prohibition and declaration of substances

Compliance with substance restrictions and identifications of the following standards is required:

### 2.1 GADSL

The “**Global Automotive Declarable Substance List (GADSL)** version 4.0 (2008-01-18)” (German version **VDA 232-101**).

Link: <http://www.gadsl.org>

### 2.2 EU-RoHS

EU-Guideline “Restriction of the use of certain hazardous substances in electrical and electronic equipment”, (**2002/95/EU**, EU-RoHS, always in valid edition).

Link: [http://europa.eu.int/comm/environment/waste/weee\\_index.htm](http://europa.eu.int/comm/environment/waste/weee_index.htm)

Material restrictions acc. to EU-RoHS apply worldwide to all products, components, materials and preparations that come under the EU-RoHS area of validity.

Exception: For Bosch products that are only distributed outside the European Union it is permissible to deviate from this regulation. The deviation approval is notified to the supplier explicitly in the order.

### 2.3 Bosch requirements

Bosch-requirements made in addition to GADSL and EU-RoHS or that deviate from them are listed in Table 1 Bosch requirements in the Automotive Technology Business Sector.

Table 1 Bosch requirements in the Automotive Technology Business Sector

Material designation	CAS-Nr.	D/P <sup>1</sup>	Notes and supplementary rules as well as limit values deviating from 0,1 % <sup>2</sup>
<b>Only for lubricants</b>			
Aromatics in DMSO soluble aromatics content in mineral oil products		P	3 % in lubricant base oils; determination based on IP 346
Chlorine (Chlorine total)	7782-50-5	P	10 ppm
Tricresylphosphate with esterified o-kresole	70-30-8	P	
<b>For all substances</b>			
Benzo(a)pyrene	50-32-8	P	1 ppm

<sup>1</sup> Obligation to declare (D) and / or Prohibited (P)

<sup>2</sup> The method of determination needs to be listed

Material designation	CAS-Nr.	D/P <sup>1</sup>	Notes and supplementary rules as well as limit values deviating from 0,1 % <sup>2</sup>
Polycyclic aromatic hydrocarbons (PAHs / PAKs), total	see chapter 3, Table 2	D	10 ppm, 16 PAKs based on EPA <sup>3</sup> , (for consumer goods, e. g. windshield wiper) 10 ppm, 8 PAKs based on GADSL (for all other products) (see chapter 3, Table 2 "Listing PAHs (PAKs) based on EPA and GADSL")

## 2.4 Declaration of substances in the International Material Data System (IMDS)

For all products, components, materials and preparations in the area of the automotive industry an entry in IMDS (International Material Data System; [www.mdsystem.com](http://www.mdsystem.com); Account Robert Bosch GmbH, #202) needs to be generated. This is regardless of whether substances rated declarable according to **N 2580-1.1 UBK** are included.

References to existing IMDS Committee entries are requested in so far as they apply with a look at the composition. Upon data entry the requirements of the IMDS-Recommendations are to be observed. For the declaration of electronic components the use of IMDS is to be preferred. Perform the declaration in accordance with IPC-1752. Family declaration in accordance with the Umbrella Specs defined via the ZVEI is accepted.

## 3 Listing PAHs (PAKs) based on EPA and GADSL

Table 2 Listing PAHs (PAKs) based on EPA and GADSL

16 PAHs (PAKs)	CAS-No.	8 PAHs (PAKs) based on GADSL	Appendix I of Materials directive 67/548/EEC
Acenaphthene	83-32-9		
Acenaphthylene	208-96-8		
Anthracene	120-12-7		
Benz(a)anthracene	56-55-3	Benz(a)anthracene	T, toxic; Carc. Cat.2, substances that ought to be considered carcinogenic for humans
Benzo(b)fluoranthene Benz[e]acephenanthrylene	205-99-2	Benz(e)acephenanthrylene Benzo(b)fluoranthene	T, Carc. Cat.2
Benzo(k)fluoranthene	207-08-2	Benzo(k)fluoranthene	T, Carc. Cat.2
Benzo(ghi)-perylene	191-42-2		
Benzo(a)pyrene	50-32-8	Benzo(a)pyrene	T, Carc. Cat.2
Chrysene	218-01-9	Chrysene	T, Carc. Cat.2
Dibenzo(a,h)-anthracene	53-70-3	Dibenzo(a,h)-anthracene	T, Carc. Cat.2
Fluoranthene	206-44-0		
Fluorene	86-73-7		
Indeno[1,2,3-cd]pyrene	193-39-5		

<sup>3</sup> EPA = Environmental Protection Agency

16 PAHs (PAKs)	CAS-No.	8 PAHs (PAKs) based on GADSL	Appendix I of Materials directive 67/548/EEC
Naphthalene	91-20-3		Xn, harmful; Carc. Cat.3, substances under suspicion of being carcinogenic
Phenanthrene	85-01-8		
Pyrene	129-00-0		
	192-97-2	Benzo(e)pyrene	T, Carc. Cat.2
	205-82-3	Benzo(j)fluoranthene	T, Carc. Cat.2

## Additionally applicable documents

- ▶ N 2580-1
- ▶ GADSL, [www.gadsl.org](http://www.gadsl.org)
- ▶ EU-RoHS, [2002/95/EC](http://eur-lex.europa.eu/LexUriServ.do?uri=CELEX:2002L0095:de:HTML)
- ▶ Directive on batteries and accumulators, [2006/66/EC](http://eur-lex.europa.eu/LexUriServ.do?uri=CELEX:2006L0066:de:HTML)