

## **PHOENIX CONTACT Environmental Compliance Standard**

PHOENIX CONTACT is aware of its responsibility to protect the people and the environment and provides the mentioned legal requirements regarding development, composition and recycling as a minimum requirement for its own environmental product requirements.

To ensure that all third parties in supply relationship with PHOENIX CONTACT will fulfil these requirements, we apply the PHOENIX CONTACT Environmental Compliance Standard. This standard needs to be observed for all delivery items that remain in PHOENIX CONTACT products. It does not release from applicable international, European and national legal regulations.

The PHOENIX CONTACT Environmental Compliance Standard applies to all deliveries of products by the supplier to a company of the Phoenix Contact Group (the respective company hereinafter referred to as "PHOENIX CONTACT") as well as to all work and services provided by the supplier on behalf of PHOENIX CONTACT.

The PHOENIX CONTACT Environmental Compliance Standard contains only bans and restrictions of substances that generally apply to articles or specifically to articles of the electric and electronic industry. The standard is based on the applicable European legal requirements as well as the German law. Bans concerning the use of substances and preparations are not part of this standard. The content and the update of the substance list are based on the international standard for products of the electrical industry IEC 62474 (see: <http://std.iec.ch/iec62474>).

All substance bans and restrictions, as well as related information and withdrawal obligations are to be obtained with the valid PHOENIX CONTACT Environmental Compliance Standard at time of delivery. The current state is made available to the supplier on request. The supplier will be informed by PHOENIX CONTACT of any changes compared with the previous edition.

The supplier is obliged to inform PHOENIX CONTACT immediately, if delivery items no longer comply with the PHOENIX CONTACT Environmental Compliance Standard due to future legal changes or of the material composition. Should the supplier become aware that limit values of delivery items have been exceeded, he shall be obliged to immediately send a product-related notification to PHOENIX CONTACT. In such cases, the notifications shall be sent to: [materialdeclaration@phoenixcontact.com](mailto:materialdeclaration@phoenixcontact.com)

The following notes must be observed for maintaining the PHOENIX CONTACT Environmental Compliance Standard:

#### RoHS Directive

The substance requirements of the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (hereinafter „RoHS Directive“) and associated supplements are to be fulfilled for all delivery items, that remain in PHOENIX CONTACT products, regardless of being within the scope of the directive or not. The substance requirements of the RoHS Directive are also fulfilled by reference to valid exceptions of the RoHS Directive and compliance of increased limits. Divergences will only be accepted for specific applications that have been defined by PHOENIX CONTACT. Upon request the supplier shall verify this by RoHS supplier declaration that meets the requirements of technical documentation in accordance with DIN EN50581 / IEC 63000.

#### China RoHS II

Upon request, a declaration in accordance with Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products, Order No.32 according to Previous Names of Authorities (hereinafter "China RoHS II") and with the SJ/T 11364-2014 standard or the GB/T 36560-2018 IDT IEC 63000 standard has to be provided to PHOENIX CONTACT. The information provided on China RoHS II must be consistent with the information provided under the RoHS Directive.

#### REACH Regulation

Information corresponding to Article 33 of the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) on the candidate list of substances of very high concern (SVHC) are to be fulfilled within the respective current version and transfer the relevant information to PHOENIX CONTACT or provide the information upon request. The current candidate list is available on the website of the European Chemicals Agency (ECHA): <http://echa.europa.eu/candidate-list-table> (Important Note: the candidate list is regularly updated, twice a year at minimum).

## Substance prohibition list of the PHOENIX CONTACT Environmental Compliance Standard:

Substance / Substance group	CAS-No.	Threshold per Application
<b>Aliphatic halogenated hydrocarbons e.g.</b> FC, HFC, HFBC Halones partially and fully chlorinated hydrocarbons Bromochloromethane	74-97-5	general prohibition in articles
<b>Asbestos fibres</b> Actinolite Amosite Anthophyllite Chrysotile Crocidolite Tremolite	77536-66-4 12172-73-5 77536-67-5 12001-29-5 132207-32-0 12001-28-4 77536-68-6	general prohibition in articles
<b>Lead and Lead compounds</b>		0,1 weight% in homogeneous material 0,01 weight% cumulated Cd, Cr, Hg in packaging material
<b>Brominated flame retardants</b> Octabromodiphenylether Polybrominated Biphenyls (PBBs) Polybrominated Diphenylethers (PBDEs) Hexabromocyclododecane (HBCD, HBCDD)		0,1 weight% in articles 0,1 weight% in homogeneous material 0,01 weight% in articles
<b>Cadmium and Cadmium compounds</b>		0,01 weight% in homogeneous material 0,002 weight% in batteries and accumulators 0,01 weight% cumulated Pb, Cr, Hg in packaging material
<b>Chlorinated flame retardants</b> Mirex	2385-85-5	general prohibition in articles
<b>Chromium (VI) compounds</b>		0,1 weight% in homogeneous material 0,01 weight% cumulated Pb, Cd, Hg in packaging material
<b>Dimethylfumarate (DMF)</b>	624-49-7	0,00001 weight% in articles
<b>Polychlorinated Biphenyls (PCBs) and specific substitutes</b> Polychlorinated Biphenyls (all isomers and congeners) Monomethyltetrachlorodiphenylmethane Ugilec 141 Monomethyldichlorodiphenylmethane Ugilec 121/21 Monomethyldibromodiphenylmethane DBBT	1336-36-3 76253-60-6 81161-70-8 99688-47-8	general prohibition in articles
<b>Pentachlorophenol a. sodium pentachlorophenolate</b>	87-86-5 131-52-2	0,0005 weight% in articles
<b>Perfluorooctane sulfonate (PFOS)</b> C <sub>8</sub> F <sub>17</sub> SO <sub>2</sub> X (X=OH, metal salts (X=O-M <sup>+</sup> ), halogenide, amide and other derivatives including polymers)		0,1 weight% in articles
<b>Phthalates</b> Di(2-ethylhexyl) phthalate (DEHP) Dibutylphthalate (DBP) Benzylbutylphthalate (BBP) Diisobutyl phthalate (DIBP)	117-81-7 84-74-2 85-68-7 84-69-5	0,1 weight% in homogeneous material
<b>Polycyclic aromatic hydrocarbons (PAH)</b> Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Benzo[b]fluoranthene (BbFA) Benzo[j]fluoranthene (BjFA) Benzo[k]fluoranthene (BkFA) Chrysen (CHR) Dibenzof[a,h]anthracene (DBAhA)	50-32-8 192-97-2 56-55-3 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3	0,0001 weight% in hand tools
<b>Polychlorinated naphthalene</b>		general prohibition in articles
<b>Polychlorinated terphenyls (PCTs) (all isomers and congeners)</b>	61788-33-8	0,005 weight% in articles
<b>Polyhalogenated Dibenzodioxins- and furans</b>		5 ppb in articles
<b>Organotin compounds</b> Tributyltin (TBT) compounds Triphenyltin (TPT) compounds Dibutyltin (DBT) compounds Dibutyltinhydrogenborate (DBB)	75113-37-0	0,1 weight% in articles
<b>Shortchain Chlorinated Paraffins (SCCPs)</b>		0.15 weight% in articles
<b>Mercury and Mercury compounds</b>		0,1 weight% in homogeneous material 0,0005 weight% in batteries and accumulators 0,01 weight% cumulated Pb, Cd, Cr in packaging material
<b>Hexachlorobutadiene</b>	87-68-3	general prohibition in articles

Relevant changes to the previous edition are marked in blue.

**Legal basis of PHOENIX CONTACT Environmental Compliance Standard:**

EU Regulation	
EC/1907/2006 Annex XVII	<b>REACH/</b> Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals with regards to Annex XVII
EU/2019/1021	<b>POP/</b> Regulation (EU) 2019/1021 of the European parliament and of the council of 20 June 2019 on persistent organic pollutants
EC/1005/2009	Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the <b>ozone</b> layer
96/59/EC	<b>PCB/PCT/</b> Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls
2011/65/EU	<b>RoHS/</b> Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment
2004/12/EC	<b>Packaging/</b> Directive 2004/12/EC of the European Parliament and of the Council of 11 February 2004 amending Directive 94/62/EC on packaging and packaging waste
2006/66/EC	<b>Batteries/</b> Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators and repealing Directive 91/157/EEC
DE national	
ChemVerbotsV	<b>Chemikalien-Verbotsverordnung/</b> Regulation on bans and restrictions on the marketing of dangerous substances, preparations and articles under the Chemicals Act (not official translation)

For detailed questions on affected application or exemptions, the respective legal text should be noted.

State: August 2019