

## 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 other applicable international, European and national legal regulations.

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 German and Swiss law. Bans concerning the use of substances and preparations are not part of this standard.

### RoHS Directive

The supplier ensures that the substance requirements of the RoHS Directive 2011/65/EU and associated supplements are 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 Directive 2011/65/EU 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. Phoenix Contact will refrain from re-demands, if the supplier regardless of the substance amendments, at least once a year (without being asked) independently creates a current RoHS supplier declaration and sends it to the contact address listed below. The supplier shall file all documents that are necessary for the preparation of his supplier RoHS declaration and the related CE marking, to be kept for a period of 10 years from delivery date of the respective delivery items.

### REACH Regulation

The Supplier guarantees to provide information corresponding to Article 33 of the REACH Regulation (EC) No 1907/2006 on the candidate list of substances of very high concern (SVHC) in the respective current version and transfer the relevant information to the affected Phoenix Contact company or provides 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).

The Supplier guarantees to comply with all substance prohibitions and restrictions as well as related information and take-back obligations listed by the respectively valid Phoenix Contact Environmental Compliance standard at the time of delivery. The current status is available on the provided link or will be provided to the Supplier upon request. The supplier will be informed by Phoenix Contact in writing, about any modification of the standard.

The supplier shall inform Phoenix Contact immediately of future changes of prohibited substances and substance restrictions relating to the delivered products known to him via the contact address listed below. In case the supplier subsequently becomes aware of exceedances of the specified limit values of his delivery items, he shall immediately send an article-related notification to the contact address mentioned below.

Contact information:

Phoenix Contact Environmental Compliance Standard is available at:  
**[www.phoenixcontact.com/toc](http://www.phoenixcontact.com/toc)**

Contact Information for returns and questions:  
**[MaterialDeclaration@phoenixcon.com](mailto:MaterialDeclaration@phoenixcon.com)**

## Substance prohibitions of the Phoenix Contact Environmental Compliance Standard:

Substance / Substance group	CAS-No.	Threshold	Application
<b>Aliphatic halogenated hydrocarbons such as</b> FC, HFC, HFBC Halones HCFC and CFC Bromochloromethane	74-97-5	general prohibition	articles
<b>Asbestos</b> Asbestos, actinolite Asbestos, amosite Asbestos, anthophyllite Asbestos, chrysotile Asbestos, crocidolite Asbestos, Tremolite	77536-66-4 12172-73-5 77536-67-5 12001-29-5 12001-28-4 77536-68-6	any intentionally added	substances, preparation and articles
<b>Lead</b>	7439-92-1	0,1 weight% in hom. Material 0,01 weight% cumulated Cd, Cr, Hg	electric devices packaging material
<b>Brominated flameretardant</b> Pentabromodiphenylether Octabromodiphenylether Hexabromobiphenyl Polybrominated Biphenyls Polybrominated Diphenylethers		0,1 weight%  0,1 weight% in hom. Material	articles  electric devices
<b>Cadmium and Cadmium compounds</b>  Cadmium	7440-43-9	0,01 weight% 0,01 weight% in hom. Material 0,002 weight% 0,01 weight% cumulated Pb, Cr, Hg	colorants for polymers, in paints and lacquers, as stabilizer for polymers (e. g. PVC), as metallic surface impregnation in articles electric devices batteries, accumulator packaging material
<b>Chlorinated flameretardant</b> Mirex	2385-85-5	general prohibition	substances, preparation and articles
<b>Chromium(VI)</b>		0,1 weight% in hom. Material 0,01 weight% cumulated Pb, Cd, Hg	electric devices packaging material
<b>Dimethyl fumarate</b>	624-49-7	0,1 mg/kg	articles
<b>Halogenated aromatic hydrocarbons</b> Monohalogenated aromatic hydrocarbons Polyhalogenated aromatic hydrocarbons		500 ppm 50 ppm	capacitors and transformers capacitors and transformers
<b>Halogenated Benzyl toluene</b> Monomethyltetrachlorodiphenylmethane Ugilec 141 Monomethyldichlorodiphenylmethane Ugilec 121/21 Monomethyldibromodiphenylmethane DBBT	76253-60-6 99688-47-8	general prohibition	articles
<b>Pentachlorophenol a. sodium pentachlorophenolate</b>	87-86-5 131-52-2	5 ppm	articles
<b>Perfluorooctane sulfonates (PFOS)</b> C8F17SO2X (acid (X=OH), Metal salts (X=O-M+), Halogenides, Amides and other Derivatives incl. Poymers		0,001 Gew.% 0,1 Gew.%	substances and preparations articles or parts
<b>Polychlorinated Biphenyls a. Terphenyls</b> Tri- and. higherchlorinated Biphenyls (PCB) Polychlorinated Terphenyls	1336-36-3 61788-33-8	50 ppm	substances, preparations and articles e.g. in capacitors
<b>Polyhalogenated Dibenzodioxins- and furans</b>		5 ppb	substances, preparation and articles
<b>Organotin compounds</b> Trisubstituted organotin compounds Dibutyltinhydrogenborate (DBB)	75113-37-0	0,1 weight%	articles
<b>Mercury</b>	7439-97-6	0,1 weight% in hom. Material 0,0005 weight% 0,01 weight% cumulated Pb, Cd, Cr	electric devices batteries, accumulator packaging material
<b>Polychlorinated naphthalene</b>		general prohibition	articles
<b>Hexachlorobutadiene</b>	87-68-3	general prohibition	articles

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
EC/850/2004	<b>POP/</b> Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC
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>Chemikalienverbotsverordnung/</b> Regulation on bans and restrictions on the marketing of dangerous substances, preparations and articles under the Chemicals Act (not official translation)
CH national	
ORRChem	<b>Chemical Risk Reduction Ordinance/</b> Ordinance of 18 May 2005 on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles (translation: federal Council of the Swiss government)

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

Middletown, September 2015  
PHOENIX CONTACT SERVICES, INC.

Middletown, September 2015  
PHOENIX CONTACT USA, INC.

Middletown, September 2015  
PHOENIX CONTACT DEVELOPMENT AND MANUFACTURING, INC