

## **EtherWAN Environmental Compliance Standard**

EtherWAN is aware of its responsibility to protect people and environment and provides the 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 EtherWAN fulfil these requirements, we apply the EtherWAN Environmental Compliance Standard. This standard needs to be observed for all delivery items that remain in EtherWAN products. It does not release from applicable international, European, and national legal regulations.

The EtherWAN Environmental Compliance Standard applies to all deliveries of products by the supplier to a company of the EtherWAN as well as to all work and services provided by the supplier on behalf of EtherWAN.

### **1. Substance prohibition list and legal basis (*Annexes I and II*)**

The EtherWAN 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 legislation as well as selected national, regional, or international regulations that are applicable to EtherWAN products and markets. Prohibitions that relate purely to the use of substances or 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>). Substance prohibitions, thresholds, and applications relevant to EtherWAN products are included in Annex I. A summary of the legal basis for the substance prohibition list is provided in Annex II. Relevant changes compared to the previous edition are marked in blue. If applicable, substance requirements that go beyond European legislation are marked in red.

### **2. General requirements**

Requirements that must be fulfilled for all delivery items of the supplier at the time of delivery to EtherWAN.

#### **2.1 Substance prohibitions and substance restrictions**

All substance bans and restrictions listed in Annex I are not contained or only below the specified limit value in all delivery items of the supplier at the time of delivery. The respective valid version of the standard is

available on the respective EtherWAN website under " About EtherWAN > Compliance " (see: <https://www.etherwan.com/about-etherwan/compliance> ) and is made available to the supplier on request. The supplier will be informed by EtherWAN of any changes compared with the previous edition.

## 2.2 Legal Scope and Exceptions

The substance requirements of Annex I are to be fulfilled for all delivery items, that remain in EtherWAN products, regardless of being within the scope of the regulation or not. The requirements are also fulfilled by compliance with valid exceptions of the respective regulation and provided that the supplier can certify compliance with the increased limit values for each delivery items upon request.

## 2.3 Minamata Convention and Mercury

For mercury and mercury compounds, the requirements of the Minamata Convention of October 10, 2013 (BGBl. 2017 II p. 610, 611) and Regulation (EU) 2017/852 on mercury must be considered. The supplier ensure compliance with the requirements for mercury and mercury compounds in products and manufacturing processes in accordance with the law.

## 2.4 Information obligations of the supplier in case of changes

The supplier is obliged to inform EtherWAN immediately, if delivery items no longer comply with the requirements of the EtherWAN Environmental Compliance Standard due to changes of the material composition. Should the supplier become aware that limit values of delivery items have been exceeded, he shall immediately update the product-related information in the EtherWAN's GPM system (<https://www.ezgpm.net>).

## 3. **Additional requirements**

Information and documents to be provided to EtherWAN upon request.

### 3.1 RoHS Supplier Declaration (Annex III)

Upon request, a product- related declaration in accordance with the Directive 2011/65/EU (RoHS) and associated supplements must be provided to EtherWAN. The supplier shall verify the conformity with the substance requirements and applicable valid exemptions by RoHS supplier declaration that meets the requirements of technical documentation in accordance with EN IEC 63000.

### 3.2 Information according to Article 33 of the REACH Regulation(Annex III)

Information corresponding to Article 33 of the Regulation (EC) No 1907/2006 (REACH) on the candidate list of substances of very high concern (SVHC) are to be complied within the respective current version of the list and the relevant information must be forwarded to EtherWAN as required by law or provide upon request. The current candidate list is available on the website of the European Chemicals Agency (ECHA): <http://echa.europa.eu/candidate-list-table> The supplier note, that the candidate list is regularly updated.

### 3.3 Declaration according to 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, including First Management Catalog ("China RoHS II") must be provided to EtherWAN. The information is divided into 2 phases with different requirements to provide information: Phase I with declaration table and recommendation for an EFUP value in accordance with the SJ / T 11364-2014 standard and Phase II with a China RoHS supplier declaration in accordance with the GB / T 36560 standard -2018 IDT IEC 63000. The information provided on China RoHS II must be consistent with the information provided under the RoHS Directive.

**Annex I: Substance prohibition list of the EtherWAN Environmental Compliance Standard**

Substance / Substance group	CAS-No.	Threshold per Application
<b>Aliphatic halogenated hydrocarbons e.g.</b> FC, HFC, HFBC (H) HFC Halones Sulphur hexafluoride (SF6)	2551-62-4	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>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>Chromium (VI) compounds</b>		0,1 weight% in homogeneous material 0,01 weight% cumulated Pb, Cd, Hg in packaging material
<b>Chlorinated Paraffins</b> Short-chain Chlorinated Paraffins (SCCPs)		0.15 weight% in articles
<b>Dimethylfumarate (DMF)</b>	624-49-7	0,00001 weight% in articles
<b>Flame retardants</b> Dechlorane Plus including its syn-isomer and its anti-isomer Mirex Octabromodiphenylether Polybrominated Biphenyls (PBBs) Polybrominated Diphenylethers (PBDEs) Hexabromocyclododecane (HBCD, HBCDD) Phenol, isopropylated, phosphate (3:1) (PIP (3:1))	13560-89-9 135821-03-3 135821-74-8 2385-85-5 68937-41-7	0,0001 weight% in articles general prohibition in articles 0,1 weight% in articles 0,1 weight% in homogeneous material 0,05 weight% in articles 0,01 weight% in articles general prohibition in articles
<b>Hexachlorobutadiene</b>	87-68-3	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>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>Organotin compounds</b> Tributyltin (TBT) compounds Triphenyltin (TPT) compounds Dibutyltin (DBT) compounds Dibutyltinhydrogenborate (DBB)	75113-37-0	0,1 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 and its salts and esters</b>	87-86-5 and others	0,01 weight% in articles
<b>Per- and polyfluoroalkyl substances (PFASs)</b> C9-C14 linear and/or branched perfluorocarboxylic acids (C9- C14 PFCAs), their salts and C9-C14 PFCAs-related substances Perfluorooctanoic acid (PFOA), ist salts and PFOA-related compounds Perfluorooctane sulfonate (PFOS) C8F17SO2X, halogenide, amide and other derivatives including polymers	- 335-67-1 -	25 ppb (salts) or 260 ppb (related) in articles 25 ppb (salts) or 1 ppm (related) in articles 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 0,1 weight% in plasticized 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) Dibenzo[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>UV absorbers</b> 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	general prohibition in articles

Relevant changes to the previous edition are marked in blue.

Requirements that go beyond European legislation are marked in red.

**Annex II: Legal basis of EtherWAN 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
EU/517/2014	<b>F-gase/</b> Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006
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
EU/2023/1542	<b>Batteries/</b> Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC
2017/852/EU	<b>Mercury/</b> Regulation (EU) 2017/852 of the European Parliament and of the Council of 17 May 2017 on mercury, and repealing Regulation (EC) No1102/2008
USA national	
TSCA, Section 6	U.S. Toxic Substance Control Act (TSCA) Section 6
International Conventions	
Minamata	Minamata Convention of 10 October 2013 on Mercury (Minamata Convention)
Stockholm	Stockholm Convention of 23 May 2001 on Persistent Organic Pollutants (POP Convention)

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



## Confirmation of the EtherWAN Environmental Compliance Standard

The supplier guarantees to comply with the requirements specified in the respectively valid EtherWAN Environmental Compliance Standard and at the time of delivery in its delivery items, the substances specified in Appendix I are not contained or only below the required limit values.

The current version of the EtherWAN Environmental Compliance Standard can be found on the respective EtherWAN website under "About EtherWAN > Compliance" or <https://www.etherwan.com/about-etherwan/compliance> or will be made available to the supplier upon request.

Supplier name: \_\_\_\_\_

Supplier number: \_\_\_\_\_

Supplier contact person: \_\_\_\_\_

Date:

Name:

Signature and stamp :  
(legally valid)

## RoHS/REACH Supplier Declaration

**EtherWAN supplier statement according to DIN EN IEC 63000 and RoHS Directive 2011/65/EU, incl. (EU) 2015/863, as well as Article 33 of REACH Regulation (EC) No. 1907/2006**

The supplier ensures that the amount of limited substances according to Directive 2011/65/EU, incl. delegated Directive (EU)2015/863, contained in the homogenous materials of the substances listed here, is below the permitted limits. Should there be any applicable exemptions, they are to be explicitly enumerated in the annexed "REACH/RoHS Substance list".

According to Directive 2011/65/EU and (EU) 2015/863, the following limitations currently apply:

Lead (0.1%)	Polybrominated diphenyl ether (PBDE) (0.1%)
Mercury (0.1%)	Di(2-ethylhexyl)phthalate (DEHP) (0.1%)
Cadmium (0.01%)	Butylbenzylphthalate (BBP) (0.1%)
Hexavalent chromium (0.1%)	Dibutylphthalate (DBP) (0.1%)
Polybrominated biphenyls (PBB) (0.1%)	Diisobutylphthalate (DIBP) (0.1%)

Furthermore, the supplier ensures that the information provided to us has been assessed using a qualified evaluation method in the sense of DIN EN IEC 63000.

### **Information corresponding to Article 33 of the REACH Regulation (EC) No 1907/2006**

The supplier confirms that the materials listed herein do not contain any SVHC from the current candidates list or these substances have been explicitly listed in the "REACH/RoHS Substance List". The up-to-date list of candidate substances can be found at <http://echa.europa.eu/de/candidate-list-table>.

Should the supplier gain knowledge of a limit exceedance of his delivered goods after the fact, he must immediately update the product-related information.

### **Confirmation of substance requirements for 2011/65/EU, incl. (EU)2015/863 and (EC) No. 1907/2006**

Supplier name: \_\_\_\_\_

Supplier number: \_\_\_\_\_

Supplier contact person: \_\_\_\_\_

The supplier confirms the completeness and accuracy of the provided information.

Date: \_\_\_\_\_ Name: \_\_\_\_\_ Signature and stamp :  
(legally valid)

**REACH/RoHS substance list**

The following data is only valid in conjunction with <Annex III - RoHS/REACH Supplier Declaration>.

EtherWAN Part number	Part description	Supplier Part number	RoHS Exemption	Alternative Material for the Exemptions	Changeover date	SVHC contained? If yes: CAS-no.?	How much weight% (SVHC)