

Belimo Liste von verbotenen Substanzen:

Auszug aus den geltenden gesetzlichen Verboten oder Beschränkungen des Inverkehrbringens gefährlicher Stoffe (Deutschland, EU, CH und einigen anderen Ländern)

Status: **August 2016**

Belimo List of hazardous substances:

Excerpts from regulations, ban and restriction regarding hazardous substances (Germany, EU, CH and some other countries)

Status: **August 2016**

Änderungsgeschichte / revision history

Revision / Date	Author; Remarks
13 Oct 2005	B.Kuster(Kbt); English and german version combined within ONE document. Added Cr6 coating under Metallic coatings.
27 Oct 2005	Kbt: Added and updated changes according to new release of the Siemens document SN 36350-2
01 Dec 2005	Kbt: PLM Version removed in footer. Revision history now on page 1
23 Sept 2006	Integrated into PLM
24 Oct 2006	Included date of document into header of PLM-document-name
20 May 2010	Kbt: Update to new status from SN36350-2 with status from January 2010
15-Aug-2013	Kbt: Updated list with REACH paragraph, inserted Asbest in list
22-Oct-2015	Kbt: New release with new date. Please check Link under ref 2
15-Aug-2016	TR: New release including additional hazardous substances based on new country regulations or application fields

EU regulation 1907/2006 (REACH)

Deutsch

Der Lieferant muss sicherstellen, dass alle an Belimo Automation AG gelieferten Produkte, Bauteile und Komponenten frei sind von Stoffen, deren Verwendung durch Anhang XIV oder Anhang XVII der REACH¹ beschränkt sind und keine Stoffe aus der Kandidatenliste² zu REACH in einer Konzentration > 0.1 Gewichtsprozent enthalten. Andernfalls muss Belimo AG unverzüglich über vorhandene Stoffe und deren Konzentration informiert werden.

English

The supplier must guarantee that all products, parts and components, which are delivered to Belimo Automation AG, are free from substances, which are restricted by annex XIV or annex XVII of REACH¹ and do not contain any substances of the candidate list² of REACH in concentration > 0.1 % by weight. Otherwise Belimo AG must be informed about substances and their concentrations immediately.

¹ Regulation (EC) No 1907/2006 of 18.12.2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

² <http://echa.europa.eu/web/guest/candidate-list-table>

Zusammengestellt aus **BOMcheck Liste der beschränkten und deklarationspflichtigen Substanzen, Ed. June 2016** – for English see pages 4 and 5

Belimo Liste von verbotenen Substanzen:					
Auszug aus den geltenden gesetzlichen Verboten oder Beschränkungen des Inverkehrbringens gefährlicher Stoffe (Deutschland, EU, CH und einigen anderen Ländern)					
Status: August 2016					
Produkt / Produktteil	Verbotener Stoff	CAS-No.	Grenzwert (Gew. %)	Ausnahmen	Gesetzliche Regelungen
Elektrische und elektronische Geräte					
Elektrische und elektronische Geräte ab 1. Juli 2006	Blei	7439-92-1	0.1		EU 2011/65/EC(RoHS) CH ChemRRV Anh. 1.7, 1.9, 2.16(6)
	Cadmium	7440-43-9	0.01		
	Quecksilber	7439-97-6	0.1		
	Sechswertiges Chrom (Cr ^{VI})	----	0.1		
	Polybromierte Biphenyle (PBBs) Polybromierte Diphenylether (PBDEs)	----	0.1		
ab 22. Juli 2019	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.1		EU 2015/863 ("RoHS3")
	Butyl benzyl phthalate (BBP)	85-68-7	0.1		
	Dibutyl phthalate (DBP)	84-74-2	0.1		
	Diisobutyl phthalate (DIBP)	84-69-5	0.1		
Batterien					
Batterien und Akkumulatoren Knopfzellen	Quecksilber, Cadmium, Blei und ihre Verbindungen.	Diverse, siehe oben	Cd 0.001 Hg 0.0001 Pb 0.004		DE BattG EU 2006/66/EG CH ChemRRV Anh. 2.15
Elektrische Komponenten					
Kondensatoren und Transformatoren	Halogenierte aromatische Stoffe	----	0.05/0.005 mono/polyh alogeniert		CH ChemRRV Anh. 2.14
	Polychlorierte Biphenyle (PCBs)	1336-36-3	0.005		DE ChemVerbotsV EU REACH Anh. XVII US TSCA (15 USC2605)
Kunststoffteile					
Eingefärbte Kunststoffe (pigments)	Cadmium	7440-43-9	0.01		DE ChemVerbotsV EU REACH Anh. XVII CH ChemRRV Anh. 2.9
Flammhemmer in Leiterplatten und Kunststoffteilen	Polybromierte Biphenyle (PBBs) Polybromierte Diphenylether (PBDEs)	32536-52-0	0.1		EU 2011/65/EC(RoHS) CH ChemRRV Anh. 1.9
	Octabromdiphenylether (OBDE) Pentabrombromdiphenylether (PeBDE)				
Dichtungsmassen Kunststoffe und Gummi (ab 1.8.2006)	Kurzkettige Chlorparaffine (C ₁₀ -C ₁₃)		1.0		CH ChemRRV Anh. 1.2
Metalllegierungen					
	Blei in Stahl Blei in Aluminium Blei in Kupfer		max 0.35 max 0.4 max 4.0		EU 2011/65/EC(RoHS)
Metallschichten					
Metallische Oberflächen	Cadmium	7440-43-9	n.a.		DE ChemVerbotsV EU REACH Anh. XVII CH ChemRRV Anh. 2.9 / 2.16(2)
	Sechswertiges Chrom (Cr ^{VI})		0.1		
Zinkschichten	Cadmium	7440-43-9	0.025		CH ChemRRV Anh. 2.16(3)
Verpackung					
Verpackungen und Verpackungsbestandteile	Summe aller Schwermetalle [Blei, Cadmium, sechswertiges Chrom (CrVI), Quecksilber]	Diverse, siehe oben	0.01		DE VerpackV EU 94/62/EG CH Chem RRV Anh. 2.16(4)
Erzeugnisse mit Anstrichen oder Lackierungen					
Anstriche und Lackierungen	Cadmium und Cd-Verbindungen Blei und Bleiverbindungen	Diverse, siehe oben	0.01		CH ChemRRV Anh. 2.8

Isolierungen					
Asbest (1332-21-4)	a. Aktinolith b. Amosit c. Anthophyllit d. Chrysotil e. Krokydolith f. Tremolit	77536-66-4 12172-73-5 77536-67-5 12001-29-5 12001-28-4 77536-68-6	0		CH ChemRRV Anh. 1.6 Ship recycling: SOLAS II-1, Regulation 3-5 and MSC.1/Circ.1379
Eingeschränkte Stoffe aus verschiedenen Gesetzgebungen, soweit nicht bereits oben abgedeckt					
Flammschutz für Kunststoffe und Gummi	Dodecachloropentacyclo [5.3.0.02,6.03,9.04,8] decane (Mirex)		No intentionally added content		Canadian Environmental Protection Act (CEPA) 1999, Prohibition of Certain Toxic Substances Regulations, 2012
Lösungsmittel	Hexachlorobutadiene, mit der Molekularformel C ₄ Cl ₆ (HCB _D)				
Weichmacher und andere	Hexachlorobenzene (HCB)				
Lösungsmittel, PCB-Herstellung	2-methoxyethanol, mit der Molekularformel C ₃ H ₈ O ₂ (2-ME)				
Flammschutz, Weichmacher	Polychlorinated Naphthalenes (PCN)				
In Schmierstoffen von Highspeed-Motoren	Benzenamine, N-phenyl-, Reaktionsprodukt mit Styrene und 2,4,4-Trimethylpentene (BNST)				
	Polychlorierte Naphthalene		0		Recycling von Schiffen MEPC.197(62), Inventar gefährlicher Substanzen und EU SRR 1257
	Radioaktive Substanzen		0		
Beschichtungen und Oberflächenbehandlungen	Perfluoroktansulfonsäure (PFOS)		0		

Compiled from **BOMcheck List of Restricted and Declarable Substances, ed. June 2016**

Belimo List of hazardous substances: Excerpts from regulations, ban and restriction regarding hazardous substances (Germany, EU, CH and some other countries) Status: August 2016					
Product / Product part	Banned substance(s)	CAS-No.	limit (% by weight)	Excep tion(s)	regulation
Electrical and electronic equipment					
Electrical and electronic equipment from July 1 st 2006	Lead and its compounds	7439-92-1	0.1		EU 2011/65/EC (RoHS) CH ChemRRV App. 1.7, 1.9, 2.16(6)
	Cadmium and its compounds	7440-43-9	0.01		
	Mercury and its compounds	7439-97-6	0.1		
	chromium ^{VI} compounds (Cr ^{VI})	----	0.1		
	Polybrominated biphenyls (PBBs) Polybrominated diphenylethers (PBDEs)	----	0.1		
from July 22nd 2019	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.1		EU 2015/863 ("RoHS3")
	Butyl benzyl phthalate (BBP)	85-68-7	0.1		
	Dibutyl phthalate (DBP)	84-74-2	0.1		
	Diisobutyl phthalate (DIBP)	84-69-5	0.1		
Batteries					
Batteries and accumulators Coin cell batteries	Mercury, Cadmium, Lead and their compounds	div. see above	Cd 0.001 Hg 0.0001 Pb 0.004		DE BattG EU 2006/66/EG CH ChemRRV Ann 2.15
Electrical components					
Capacitors and transformers	Halogenated aromatic substances	----	0.05/0.005 mono/polyh alogeniert		CH ChemRRV Ann 2.14 DE ChemVerbotsV EU REACH Ann XVII US TSCA (15 USC2605)
	Polychlorinated Biphenyls (PCBs)	1336-36-3	0.005		
Plastic parts					
Colored plastics (pigments)	Cadmium	7440-43-9	0.01		DE ChemVerbotsV EU REACH Ann XVII CH ChemRRV Ann 2.9
Flame retardants in circuit boards and plastic parts	Polybrominated biphenyls (PBBs) Polybrominated diphenylethers (PBDEs)	32536-52-0	0.1		EU 2011/65/EC (RoHS) CH ChemRRV Ann 1.9
	Octabromdiphenylether (OBDE) Pentabrombromdiphenylether (PeBDE)				
Sealing compounds Plastic and rubber (from August 1st, 2006)	short-chained chlorinated paraffins (C ₁₀ -C ₁₃)		1.0		CH ChemRRV Ann 1.2
Metal alloys					
	Lead in steel alloys lead in aluminium alloys lead in copper alloys		max 0.35 max 0.4 max 4.0		EU 2011/65/EC (RoHS)
Metallic coatings					
Metallic coatings	Cadmium	7440-43-9	n.a.		DE ChemVerbotsV EU REACH Ann XVII CH ChemRRV Ann 2.9 / 2.16(2)
	Chromium ^{VI} compounds (Cr ^{VI})		0.1		
Zinc coating	Cadmium	7440-43-9	0.025		CH ChemRRV Ann 2.16(3)
Packaging Material					
Packaging and wrapping Material and its compounds.	Sum of all heavy metals : [lead, cadmium, chromium ^{VI} compounds (Cr ^{VI}), mercury]	various see above	0.01		DE VerpackV EU 94/62/EG CH Chem RRV Ann 2.16(4)
Painted or varnished articles					
coatings and varnishes	Cadmium und Cd-compounds Lead and lead-compounds	various see above	0.01		CH ChemRRV Ann 2.8
Isolation material					

Asbestos (1332-21-4)	a. Aktinolith b. Amosit c. Anthophyllit d. Chrysotil e. Krokydolith f. Tremolit	77536-66-4 12172-73-5 77536-67-5 12001-29-5 12001-28-4 77536-68-6	0		CH ChemRRV Ann 1.6 Ship recycling: SOLAS II-1, Regulation 3-5 and MSC.1/Circ.1379
Restricted substances from various legislations, as far as not covered above					
Flame retardant for plastics and rubber	Dodecachloropentacyclo [5.3.0.02,6.03,9.04,8] decane (Mirex)	2385-85-5	No intentionally added content		Canadian Environmental Protection Act (CEPA) 1999, Prohibition of Certain Toxic Substances Regulations, 2012
Solvent	Hexachlorobutadiene, which has the molecular formula C ₄ Cl ₆ (HCBD)	87-68-3			
Plasticiser and others	Hexachlorobenzene (HCB)	118-74-1			
Solvent, PCB manufacturing	2-methoxyethanol, which has the molecular formula C ₃ H ₈ O ₂ (2-ME)	109-86-4			
Flame retardant, plasticiser	Polychlorinated Naphthalenes (PCN)	various			
In lubricants for high speed motors	Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)				
	Polychlorinated naphthalenes (see also Canada)	various	0		Ship recycling MEPC.197(62), Inventory of Hazardous Materials and EU SRR 1257
	Radioactive substances	---	0		
Coatings and surface treatments	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0		