

(restricted/banned substances in subassemblies, parts, materials, components, batteries, merchandise and packaging) (beschränkte/verbotene Substanzen in Baugruppen, Teilen, Materialien, Komponenten, Batterien, Waren und Verpackungen)					
Baumer Ref.No.	Substance / Substanz	CAS Number / CAS-Nummer	Threshold Limit / Grenzwert	Examples/Use	Beispiele/Verwendung
RoHS					
109	Butyl benzyl phthalate (BBP)	85-68-7	0.1% (1000ppm) w/w	packing films, rubber (Buna-n or NBR, SBR) sealants, polyurethane foam, adhesives, paints, lacquers, vinyl resins, Phthalate plasticizers, PVC materials (cables, wire insulation)	Verpackungsfolien, Dichtungsmassen aus Gummi (Buna-n oder NBR, SBR), Polyurethanschaum, Klebstoffe, Farben, Lacke, Vinylharze, Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
108	Di-(2-ethylhexyl) phthalate (DEHP) Synonyms: Bis(2-ethylhexyl) phthalate; Di-iso-octyl phthalate	117-81-7	0.1% (1000ppm) w/w	flexible PVC (cables, wire insulation), inks, lacquers, glues	flexibles PVC (Kabel, Drahtisolierung), Farben, Lacke, Leime
110	Dibutyl phthalate (DBP) Synonyms: o-Benzenedicarboxylic acid dibutyl ester; Dibutyl 1,2-benzenedicarboxylate	84-74-2	0.1% (1000ppm) w/w	PVC cables and wiring insulation, rubber (neoprene) and nitrile rubber, PVA adhesives, Nitrocellulose lacquers, printing inks, sealants, film coatings and glass fibres, glues	PVC-Kabel und Kabelisolierung, Gummi (Neopren) und Nitrilkautschuk, PVA-Klebstoffe, Nitrocellulose-Lacke, Druckfarben, Dichtungsmassen, Filmbeschichtungen und Glasfasern, Klebstoffe
111	Diisobutyl phthalate (DIBP)	84-69-5	0.1% (1000ppm) w/w	PVC in paints, printing inks and adhesives, vinyl resin, rubber (Buna-n or NBR, SBR) in sealings	PVC in Farben, Druckfarben und Klebstoffen, Vinylharz, Gummi (Buna-n oder NBR, SBR) in Dichtungen
104	Cadmium and its compounds (Cd)	7440-43-9	0.01% (100ppm) w/w	pigments in plastics, ceramics: buttons or housings including PA and ABS, in PVC, Batteries (NiCd), semiconductors: CdSe, CdS, CdTe, Cd3P2, Cd2As2, Cd3Sb2 are used as photosensitive compounds, plating on steel and aluminium, Plugs, contacts and switches, filters (for colouring glass)	Pigmente in Kunststoffen, Keramik: Knöpfe oder Gehäuse einschließlich PA und ABS, in PVC, Batterien (NiCd), Halbleiter: CdSe, CdS, CdTe, Cd3P2, Cd2As2, Cd3Sb2 werden als lichtempfindliche Verbindungen verwendet, Plattierung auf Stahl und Aluminium, Stecker, Kontakte und Schalter, Filter (zum Einfärben von Glas)
132	Cadmium oxide (Cd)	1306-19-0	0.01% (100ppm) w/w	power switching contacts, relays	Stromschaltkontakte, Relais
105	Hexavalent Chromium Cr(VI) Synonyms: Chromates; Dichromates	-	0.1% (1000ppm) w/w	lead chromate pigments (give yellow, red and orange colours), hard chrome plating, decorative chrome plating, chromate passive coatings: fasteners (screws, nuts, bolts), electrical contacts, brackets, chassis, stand-offs and rails, zinc coatings, aluminium coatings, copper coating electronic equipment (PCBs, Li-ion batteries, electromagnetic field shields)	Bleichromatpigmente (geben gelbe, rote und orange Farben), Hartverchromung, dekorative Verchromung, Passive Chromat-Beschichtungen: Befestigungselemente (Schrauben, Muttern, Bolzen), elektrische Kontakte, Halterungen, Chassis, Abstandshalter und Schienen, Zinkbeschichtungen, Aluminiumbeschichtungen, elektronische Ausrüstung für die Kupferbeschichtung (Leiterplatten, Li-Ionen-Batterien, elektromagnetische Feldabschirmungen)
102	Lead and its compounds (Pb)	7439-92-1	0.1% (1000ppm) w/w	solder, stabilisers in PVC, connector, chip termination electroplating, lacquer, primer, paint, conformal coatings, coating wires, thread locking	Lot, Stabilisatoren in PVC, Stecker, Chip-Terminierung Galvanisierung, Lack, Grundierung, Farbe, Schutzlacke, Beschichtungsdrähte, Gewindefixierung
103	Mercury and its compounds (Hg)	7439-97-6	0.1% (1000ppm) w/w	LCD backlighting, relays	LCD-Hintergrundbeleuchtung, Relais
106	Polybrominated biphenyls (PBB)	92-86-4	0.1% (1000ppm) w/w	laminated PCB: epoxy, phenolic, polyamides	Laminierte PCB: Epoxy, Phenol, Polyamide
106a	Synonyms: di-, tetra-, hexa-, octa-, deca-bromobiphenyl	60044-25-9	0.1% (1000ppm) w/w	encapsulants for electronic components: epoxy Housings: ABS, HIPS, PC, nylons, switches, sockets and connectors: PET, PBT, polyamides, wire & cable insulation: PVC, EVA, XLPE, flame retardant	Verkapselungen für elektronische Bauteile: Epoxy Gehäuse: ABS, HIPS, PC, Nylons, Schalter, Steckdosen und Stecker: PET, PBT, Polyamide, Kabel- und Kabelisolierung: PVC, EVA, XLPE, Flammschutzmittel
106b		36355-01-8			
106c		59536-65-1			
106d		27858-07-7			
106e		13654-09-6			
107		Polybrominated diphenyl ethers (PBDE)			
107a		36437-37-3		encapsulants for electronic components: epoxy	Verkapselungen für elektronische Bauteile: Epoxy
107b		63869-93-2		Housings: ABS, HIPS, PC, nylons, switches, sockets and connectors: PET, PBT, polyamides, wire & cable insulation: PVC, EVA, XLPE, flame retardant	Gehäuse: ABS, HIPS, PC, Nylons, Schalter, Steckdosen und Stecker: PET, PBT, Polyamide, Kabel- und Kabelisolierung: PVC, EVA, XLPE, Flammschutzmittel
REACH (SVHC - Candidate List / SVHC - Kandidatenliste) 15.01.2019					
161	[Phthalato(2-)]dioxotrilead	69011-06-9	0.1% (1000ppm) w/w	heat stabilizers, plastic housings, PVC material, incl. Cables	Hitzestabilisatoren, Kunststoffgehäuse, PVC-Material, inkl. Kabel
233	1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6	0.1% (1000ppm) w/w	Flame retardants in epoxy potting systems and printed circuit boards	Flammschutzmittel in Epoxidverussystemen und Leiterplatten
138	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed	68515-51-5	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
138a	decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68648-93-1			
141	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
144	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
125	1,2-bis(2-methoxyethyl) ethane	112-49-2	0.1% (1000ppm) w/w	substances used in lithium ion batteries	Substanzen, die in Lithium-Ionen-Batterien verwendet werden
127	1,2-diethoxyethane	629-14-1	0.1% (1000ppm) w/w	substances used in lithium ion batteries	Substanzen, die in Lithium-Ionen-Batterien verwendet werden
126	1,2-dimethoxyethane	110-71-4	0.1% (1000ppm) w/w	substances used in lithium ion batteries	Substanzen, die in Lithium-Ionen-Batterien verwendet werden
220	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.1% (1000ppm) w/w	substances used in LED	Substanzen, die in LED verwendet werden
123	1,3-propanesultone	1120-71-4	0.1% (1000ppm) w/w	substances used in lithium ion batteries	Substanzen, die in Lithium-Ionen-Batterien verwendet werden
206	1,6,7,8,9,14,15,16,17,18,18-Dodecachloropentacyclo[12.2.1.1.6.9.0.2.13.05,10]octadeca-	13560-89-9	0.1% (1000ppm) w/w	non-plasticising flame retardant, used in adhesives and sealants and in binding agents	nicht plastifizierendes Flammschutzmittel, verwendet in Kleb- und Dichtstoffen und in Bindemitteln
206a	7,15-diene	135821-74-8			
206b		135821-03-3			
134	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.1% (1000ppm) w/w	UV stabilizers, PUR-potting system, seals, plastics	UV-Stabilisatoren, PUR-Verguss, Dichtungen, Kunststoffe
136	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.1% (1000ppm) w/w	UV stabilizers, PUR-potting system, seals, plastics	UV-Stabilisatoren, PUR-Verguss, Dichtungen, Kunststoffe
117	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.1% (1000ppm) w/w	substances used in polyurethane, cables, PUR-hardener, protection paint, PUR-foam	Stoffe für Polyurethan, Kabel, PUR-Härter, Schutzanstrich, PUR-Schaum
135	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.1% (1000ppm) w/w	UV stabilizers, PUR-potting system, seals, plastics	UV-Stabilisatoren, PUR-Verguss, Dichtungen, Kunststoffe
137	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.1% (1000ppm) w/w	UV stabilizers, cables, devices PET, PC, ABS	UV-Stabilisatoren, Kabel, Geräte PET, PC, ABS
139	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
228	4,4'-Diaminodiphenylmethane (MDA) Synonyms: 4,4'-methylenedianiline; p,p'-Methylenedianiline	101-77-9	0.1% (1000ppm) w/w	Intermediate product for epoxy hardener	Zwischenprodukt für Epoxidhärter
242	4,4'-methylenedi-o-toluidine	838-88-0	0.1% (1000ppm) w/w	Intermediate product for polyimide (PEI)-radar sensor	Zwischenprodukt für Polyimid (PEI)-Radarsensor
229	4,4'-oxydianiline and its salts	101-80-4	0.1% (1000ppm) w/w	Intermediate product for polyimide (PEI)	Zwischenprodukt für Polyimid (PEI)
184	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	0.1% (1000ppm) w/w	red and yellow colorants, colour in ink jet printers, aniline yellow pigment	Rote und gelbe Farbstoffe, Farbe in Tintenstrahldruckern, Anilin-Gelbpigment

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128	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.1% (1000ppm) w/w	substances used in specialist paints and coating, UHU-glue, basic is polyvinylacetat	Substanzen in Speziallacken und Beschichtungen verwendet, UHU-Kleber, Polyvinylacetat basierend
122	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.1% (1000ppm) w/w	substances used in PVDF plastic, cables (PVDF), seals, membranes, packaging films, binder in electrodes of Li-batteries	Substanzen in PVDF-Kunststoff, Kabel (PVDF), Dichtungen, Membranen, Verpackungsfolien, Bindemittel in Elektroden von Li-Batterien verwendet
152	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	0.1% (1000ppm) w/w	hardener epoxy system	Härter Epoxy-System
130	Benz(a)pyrene (BaP) Synonyms: Benzo(a)fluoranthrene; 3,4-Benzopyrene; Benzo(e,f)chrysene	50-32-8	0.1% (1000ppm) w/w	impurities in extender oils and black colourants, plastics, epoxy	Verunreinigungen in Extender-Ölen und schwarzen Farbstoffen, Kunststoffen, Epoxy
124	Bis(2-methoxyethyl) ether	111-96-6	0.1% (1000ppm) w/w	substances used in lithium ion batteries	Substanzen, die in Lithium-Ionen-Batterien verwendet werden
147	Bis(2-methoxyethyl) phthalate	117-82-8	0.1% (1000ppm) w/w	phthalate plasticizers, glue, cables	Phthalat Weichmacher, Kleber, Kabel
174	Bis(tri-n-butyltin)oxide (TBT O) Synonyms: Bis(tri-n-butyltin)oxide; Hexabutyltinnoxane	56-35-9	0.1% (1000ppm) w/w	biocides, wood preservation, polyurethane foam	Biozide, Holzkonservierung, Polyurethanschaum
118	Bisphenol A Synonyms: 4,4'-isopropylidenediphenol; Phenol, 4,4'-(1-methylethylidene)bis-	80-05-7	0.1% (1000ppm) w/w	substances used in thermal paper and as antioxidant additive in PVC, cables, Epoxy-hardener, circuit board	Substanzen in Thermopapier und als Antioxidationsmittelzusatz in PVC, Kabeln, Epoxy-Härter, Leiterplatten
175	Boric Acid	10043-35-3	0.1% (1000ppm) w/w	flame retardant / adhesive component contained in wood, paper, cotton and other vegetable materials, flux	Flammhemmende / haftende Komponente in Holz, Papier, Baumwolle und anderen pflanzlichen Materialien, Flussmittel
175a		11113-50-1			
133	Cadmium sulphide	1306-23-6	0.1% (1000ppm) w/w	piezoelectric transducer, glass	piezoelektrischer Wandler, Glas
194	Decamethylcyclopentasiloxane (D5)	541-02-6	0.1% (1000ppm) w/w	HCR basic raw materials, Silicone	HCR Rohkautschuke, Silicone
148	DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters)	68515-42-4	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
170	Diarsenic pentaoxide Synonyms: Arsenic pentoxide; Arsenic oxide	1303-28-2	0.1% (1000ppm) w/w	substances used in the manufacture of glasses, special glass	Stoffe für die Herstellung von Gläsern, Spezialglas
171	Diarsenic trioxide Synonyms: Arsenic trioxide	1327-53-3	0.1% (1000ppm) w/w	substances used in the manufacture of glasses, special glass	Stoffe für die Herstellung von Gläsern, Spezialglas
176	Diboron Trioxide	1303-86-2	0.1% (1000ppm) w/w	flame retardant / adhesive component contained in wood, paper, cotton and other vegetable materials, flux	Flammhemmende / haftende Komponente in Holz, Papier, Baumwolle und anderen pflanzlichen Materialien, Flussmittel
159	Dibutyltin dichloride (DBTC)	683-18-1	0.1% (1000ppm) w/w	heat stabilizers, RTV-silicone 112	Wärmestabilisatoren, RTV-Silikon 112
205	Dicyclohexyl phthalate (DCHP)	84-61-7	0.1% (1000ppm) w/w	PVC-cables, housings, epoxy systems	PVC-Kabel, Gehäuse, Epoxid-Systeme
142	Dihexyl phthalate	84-75-3	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
149	DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich)	71888-89-6	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
145	Diisopentylphthalate (DIPP)	605-50-5	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
162	Dioxobis(stearato)trilead	12578-12-0	0.1% (1000ppm) w/w	heat stabilizers, all plastic housings, PVC material, incl. cables	Hitzebestabilisatoren, alle Kunststoffgehäuse, PVC-Material, inkl. Kabel
143	Dipentyl phthalate (DPP)	131-18-0	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
155	Diphenyl ether, decabromo derivative Synonyms: Decabromodiphenylether (DecaBDE); Pentabromophenyl ether; Bis(pentabromophenyl)ether; Decabromodiphenyl oxide	1163-19-5	0.1% (1000ppm) w/w	flame retardants, plastic housings	Flammenschutzmittel, Kunststoffgehäuse
204	Diphenyl ether, decabromo derivative Synonyms: Decabromodiphenylether (DecaBDE); Pentabromophenyl ether; Bis(pentabromophenyl)ether; Decabromodiphenyl oxide	1163-19-5	0.1% (1000ppm) w/w	printed circuit boards	Leiterplatten
177	Disodium tetraborate, anhydrous	1303-96-4	0.1% (1000ppm) w/w	flame retardant / adhesive component contained in wood, paper, cotton and other vegetable materials, wood preservation	schwer entflammbar / haftende Komponente in Holz, Papier, Baumwolle und anderen pflanzlichen Materialien, Holzkonservierung
177a	Synonyms: Borax; Sodium tetraborate	1330-43-4			
177b		12179-04-3			
214	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.1% (1000ppm) w/w	HCR basic raw materials, Silicone	HCR Rohkautschuke, Silicone
215	Ethylendiamine (EDA)	107-15-3	0.1% (1000ppm) w/w	rubber, synthetic resins	Gummi, synthetische Harze
163	Fatty acids, C16-18, lead salts	91031-62-8	0.1% (1000ppm) w/w	heat stabilizers, plastic housings, PVC material, incl. cables	Hitzebestabilisatoren, Kunststoffgehäuse, PVC-Material, inkl. Kabel
158	Hexabromocyclododecane, mixed isomeres (HBCD, HBCDD)	25637-99-4	0.1% (1000ppm) w/w	flame retardants, plastic housings (ASA, POM, PVC, PC, PE, PA)	Flammenschutzmittel, Kunststoffgehäuse (ASA, POM, PVC, PC, PE, PA)
158a		3194-55-6			
158b		134237-51-7			
158c		134237-50-6			
158d		134237-52-8			
231	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]	19438-60-9	0.1% (1000ppm) w/w	Intermediate product for epoxy resin, Plasticizer PVC	Zwischenprodukt für Epoxidharz, Weichmacher PVC
231a	[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0			
231b		48122-14-1			
179	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.1% (1000ppm) w/w	Substance used in acrylic adhesive glues	Substanz, die in Acrylklebstoffen verwendet wird
219	Lead (Pb)	7439-92-1	0.1% (1000ppm) w/w	solder, stabilisers in PVC, connector, chip termination electroplating, lacquer, primer, paint, conformal coatings, coating wires, thread locking	Lot, Stabilisatoren in PVC, Stecker, Chip-Terminierung Galvanisierung, Lack, Grundierung, Farbe, Schutzlacke, Beschichtungsdrähte, Gewindesicherung
164	Lead dinitrate	10099-74-8	0.1% (1000ppm) w/w	heat stabilizers, polyamide and polyester housings	Hitzebestabilisatoren, Gehäuse aus Polyamid und Polyester
131	Lead monoxide (lead oxide)	1317-36-8	0.1% (1000ppm) w/w 0.03 % (300ppm) w/w of surface coating material (Prop 65)	cables/cords with thermoset or thermoplastic coatings	Kabel mit duroplastischen oder thermoplastischen Beschichtungen
160	Lead oxide sulfate	12036-76-9	0.1% (1000ppm) w/w	heat stabilizers, PVC materials, incl. cables	Hitzebestabilisatoren, PVC-Materialien, einschl. Kabel
115	Lead titanium trioxide	12060-00-3	0.1% (1000ppm) w/w	substances used in ultrasound transducers, ceramic capacitors and actuators	Substanzen, die in Ultraschallwandlern, keramischen Kondensatoren und Aktuatoren verwendet werden
116	Lead titanium zirconium oxide	12626-81-2	0.1% (1000ppm) w/w	substances used in ultrasound transducers, ceramic capacitors and actuators	Substanzen, die in Ultraschallwandlern, keramischen Kondensatoren und Aktuatoren verwendet werden
113	N,N-dimethylacetamide	127-19-5	0.1% (1000ppm) w/w	substances used in electrolytic capacitors (alu elco)	Substanzen in Elektrolytkondensatoren (alu elco)
114	N,N-dimethylformamide	68-12-2	0.1% (1000ppm) w/w	substances used in electrolytic capacitors (low temperature capacitors rated to -55°C)	Substanzen in Elektrolytkondensatoren (Niedertemperaturkondensatoren bis -55 °C)
119	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts:	3108-42-7	0.1% (1000ppm) w/w	substances used in PVDF plastic, cables (PVDF), seals, membranes, packaging films, binder in electrodes of Li-batteries	Substanzen in PVDF-Kunststoff, Kabel (PVDF), Dichtungen, Membranen, Verpackungsfolien, Bindemittel in Elektroden von Li-Batterien verwendet
119a	- Nonadecafluorodecanoic acid	335-76-2			
	- Decanoic acid, nonadecafluoro-, sodium salt				

Baumer Ref.No.	Substance / Substanz	CAS Number / CAS-Nummer	Threshold Limit / Grenzwert	Examples/Use	Beispiele/Verwendung
119b	- Ammonium nonadecafluorodecanoate	3830-45-3			
146	N-pentyl-isopentylphthalate	776297-69-9	0.1% (1000ppm) w/w	phthalate plasticizers, cables	Phthalatweichmacher, Kabel
216	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.1% (1000ppm) w/w	rubber, sealing gaskets	Gummi, Dichtungen
121	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.1% (1000ppm) w/w	substances used in PVDF plastic, cables (PVDF), seals, membranes, packaging films, binder in electrodes of Li-batteries	Substanzen in PVDF-Kunststoff, Kabel (PVDF), Dichtungen, Membranen, Verpackungsfolien, Bindemittel in Elektroden von Li-Batterien verwendet
165	Pentalead tetraoxide sulphate	12065-90-6	0.1% (1000ppm) w/w	heat stabilizers, all plastic housings, PVC material, incl. cables	Hitzebestabilisatoren, alle Kunststoffgehäuse, PVC-Material, inkl. Kabel
129	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	0.1% (1000ppm) w/w	protective coatings which are resistant to water, oils, etc. cables (PVDF), seals, membranes, packaging films, binder in electrodes of Li-batteries	Schutzbeschichtungen, die gegen Wasser, Öle usw. beständig sind, Kabel (PVDF), Dichtungen, Membranen, Verpackungsfolien, Bindemittel in Elektroden von Li-Batterien
120	Perfluorononan-1-oi-c-acid and its sodium and ammonium salts	375-95-1	0.1% (1000ppm) w/w	substances used in PVDF plastic, cables (PVDF), seals, membranes, packaging films, binder in electrodes of Li-batteries	Substanzen in PVDF-Kunststoff, Kabel (PVDF), Dichtungen, Membranen, Verpackungsfolien, Bindemittel in Elektroden von Li-Batterien verwendet
120a		21049-39-8			
120b		4149-60-4			
140	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.1% (1000ppm) w/w	phthalate plasticizers, PVC materials (cables, wire insulation)	Phthalatweichmacher, PVC-Materialien (Kabel, Drahtisolierung)
212	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	0.1% (1000ppm) w/w	lubricant additive in lubricants and greases	Schmiermittelzusatz in Schmiermitteln und Fetten verwendet
157	Short chained chlorinated paraffins (SCCP) Synonyms: Alkanes, C10-13, chloro; Chlorinated paraffins, C10-13	85535-84-8	0.1% (1000ppm) w/w	flame retardants, adhesives, paints, PVC-cables	Flammenschutzmittel, Klebstoffe, Farben, PVC-Kabel
166	Sulfurous acid, lead salt, dibasic	62229-08-7	0.1% (1000ppm) w/w	heat stabilizers, all plastic housings, PVC material, incl. cables	Hitzebestabilisatoren, alle Kunststoffgehäuse, PVC-Material, inkl. Kabel
156	TCEP (Tris (2-chloroethyl) phosphate) Synonyms: Ethanol, 2-chloro-, phosphate (3:1)	115-96-8	0.1% (1000ppm) w/w	flame retardants, PUR-foam, potting system, PVC materials	Flammenschutzmittel, PUR-Schaum, Vergussystem, PVC-Materialien
178	Tetraboron disodium heptaoxide, hydrate Synonyms: Disodium tetraborate, anhydrous; Boric acid, disodium salt	12267-73-1	0.1% (1000ppm) w/w	flame retardant / adhesive component contained in wood, paper, cotton and other vegetable materials, wood preservation	schwer entflammare / haftende Komponente in Holz, Papier, Baumwolle und anderen pflanzlichen Materialien, Holzkonservierung
167	Tetralead trioxide sulphate	12202-17-4	0.1% (1000ppm) w/w	heat stabilizers, all plastic housings, PVC material, incl. cables	Hitzebestabilisatoren, alle Kunststoffgehäuse, PVC-Material, inkl. Kabel
168	Trilead dioxide phosphonate	12141-20-7	0.1% (1000ppm) w/w	heat stabilizers, all plastic housings, PVC material, incl. Cables	Hitzebestabilisatoren, alle Kunststoffgehäuse, PVC-Material, inkl. Kabel
154	Trixylyl phosphate	25155-23-1	0.1% (1000ppm) w/w	flame retardants, PVC materials, PUR-potting system, rubber	Flammenschutzmittel, PVC-Materialien, PUR-Verguss-System, Gummi
REACH (Annex XVII / Anhang XVII)					
11	1,1,1,2-Tetrachloroethane	630-20-6	0.1% (1000ppm) w/w	chlorinated hydrocarbons restricted from finished products, coatings	Chlorierte Kohlenwasserstoffe beschränkt in Fertigprodukten, Beschichtungen
17	1,1,1-Trichloroethane	71-55-6	-	solvents in paints, adhesives, cutting oils and for cleaning metallic workpieces, glass,	Lösungsmittel in Farben, Klebstoffen, Schneidölen und zur Reinigung von metallischen
7	1,1-Dichloroethene Synonyms: 1,1-dichloroethylene; Vinylidene chloride	75-35-4	0.1% (1000ppm) w/w	chlorinated hydrocarbons restricted from finished products, PVC-cables, housings	Chlorierte Kohlenwasserstoffe beschränkt in Fertigprodukten, PVC-Kabel, Gehäuse
80	Dibutyltin (DBT) compounds	-	0.1% (1000ppm) w/w	heat stabilizers, PVC materials (cables, wire insulation)	Hitzebestabilisatoren, PVC-Materialien (Kabel, Drahtisolierung)
79	Dimethyl fumarate (DMF)	624-49-7	0.00001% (0.1 ppm)	biocides and pesticides, silica gel desiccant bags	Biozide und Pestizide, Silikagel-Trockenmittelbeutel
230	Di-n-oktyl phthalate (DNOP) Synonyms: o-Benzenedicarboxylic acid, Dioctyl phthalate	117-84-0	0.1% (1000ppm) w/w	Plasticizer PVC	Weichmacher PVC
218	Diocetyl tin (DOT)	-	0.1% (1000ppm) w/w	prohibited for one-component and two-component room temperature vulcanization impression kits (RTV-2 Impression Kits) and adhesives	verboten für Ein-Komponenten- und Zwei-Komponenten-Raumtemperaturvulkanisierungs-Dichtungsmittel (RTV-1- und RTV-2-Dichtungsmittel)
235	Diphenylether, octabromo derivative Synonyms: Octabromodiphenylether (OctaBDE)	32536-52-0	0.1% (1000ppm) w/w	Flame retardants in epoxy potting systems and printed circuit boards	Flammenschutzmittel in Epoxidvergußsystemen und Leiterplatten
8	Pentachloroethane	76-01-7	0.1% (1000ppm) w/w	chlorinated hydrocarbons restricted from finished products, oils, grease	chlorierte Kohlenwasserstoffe beschränkt auf Fertigprodukte, Öle, Fette
84	Polychlorinated terphenyls (PCTs) Synonyms: Terphenyl, chlorinated	61788-33-8	0.005% (50ppm) w/w	dielectrics, PVC materials (cables, wire insulation)	Dielektrika, PVC-Materialien (Kabel, Kabelisolierung)
82	Tri-substituted organostannic compounds	-	0.1% (1000ppm) w/w	biocides and pesticides, stabilisers for PVC materials (cables, wire insulation)	Biozide und Pestizide, Stabilisatoren für PVC-Materialien (Kabel, Drahtisolierung)
Persistent Organic Pollutants / Persistente organische Schadstoffe (POPs)					
193	Alkanes, C10-12, chloro	108171-26-2	0.1% (1000ppm) w/w	Plasticizer for PVC, flame retardant	Weichmacher für PVC, Flammenschutzmittel
195	Hexabromodiphenyl ether	68631-49-2	0.001% (10ppm) w/w	flame retardants	Flammenschutzmittel
195a	and heptabromodiphenyl ether	207122-15-4			
195b	(commercial octabromodiphenyl ether)	446255-22-7			
195c		207122-16-5			
201	Polychlorinated naphthalenes (PCN)	70776-03-3	-	insulating coatings for electrical wires, rubber and plastic additives, for capacitor dielectrics and in lubricants	Isolierbeschichtungen für elektrische Drähte, Gummi- und Kunststoffadditive, für Kondensatordielektrika und in Schmiermitteln
203	Tetrabromodiphenyl ether and pentabromodiphenyl ether (commercial)	5436-43-1	0.001% (10ppm) w/w	printed circuit boards	Leiterplatten
203a		60348-60-9			
203b	pentabromodiphenyl ether)	40088-47-9			
others					
241	Tetrabromobisphenol-A (TBBPA) Synonyms: 2,2,6,6-tetrabromo-4,4-isopropylidenediphenol; Bromdian; BA 59	79-94-7	0.1% (1000ppm) w/w	Flame retardants in epoxy potting systems and printed circuit boards	Flammenschutzmittel in Epoxidvergußsystemen und Leiterplatten
234	Diphenyl ether, pentabromo derivative Synonyms: Pentabromodiphenylether (PentaBDE)	32534-81-9	0.1% (1000ppm) w/w	Flame retardants in epoxy potting systems and printed circuit boards	Flammenschutzmittel in Epoxidvergußsystemen und Leiterplatten
Batteries					
89	Cadmium and Cadmium compounds in batteries	7440-43-9	0.001% (10 ppm) w/w	substances used in batteries	Substanzen, welche in Batterien verwendet werden

Baumer Ref.No.	Substance / Substanz	CAS Number / CAS-Nummer	Threshold Limit / Grenzwert	Examples/Use	Beispiele/Verwendung
90	Lead and Lead compounds in batteries	7439-92-1	0.004% (40 ppm) w/w	substances used in batteries	Substanzen, welche in Batterien verwendet werden
88	Mercury and Mercury compounds in batteries	7439-97-6	0.0001% (1 ppm) w/w	substances used in batteries	Substanzen, welche in Batterien verwendet werden
87	Perchlorates in batteries	7791-03-9	0.0000006% (6 ppb) w/w	substances used in batteries	Substanzen, welche in Batterien verwendet werden
87a		7790-98-9			
87b		13465-95-7			
87c		13637-76-8			
87d		99749-31-2			
87e		10034-81-8			
87f		13455-31-7			
87g		7616-83-3			
87h		13520-61-1			
87i		13637-71-3			
87j		13637-71-3			
87k		7778-74-7			
87l		7778-74-7			

Remark: Changes since last update marked red.