

Date: 27. July 2017 Requestor: VLSI Solution Oy
 Revision: 2.7 Hermiankatu 8G, 33270 Tampere, Finland
 Product Total Mass [mg]: 282.45 mg Email: quality@vlsi.fi
 www.vlsi.fi
 Supplier information: Doc A
 Product Name: VS1205G-F/LSR-ROHS (LFGA 88 RoHS, gold wire, Flash memory included (top die)) Order code: VS1205G-F-Q
 VS1005G-F/LSR-ROHS (LFGA 88 RoHS, gold wire, Flash memory included (top die)) VS1005G-F-Q
 VS8005G-F/LSR-ROHS (LFGA 88 RoHS, gold wire, Flash memory included (top die)) VS8005G-F-Q

References of "Threshold level" columns:

1) Report the **biggest content rate** (ppm) of the substance at the **homogeneous material level**. **Optionally** also the total **weight** of the substance in the product.
 Weight = total weight of the substance in the product.

Content rate [ppm] = Content rate of the substance in the homogeneous material that has the biggest ppm content of the substance.
 Example: Lead (Pb) content in lead frame plating [ppm] = weight of lead (Pb) in leadframe [10⁻⁹ g] / weight of the leadframe [mg]

2) Report the total **weight** of the substance in the **product**. **Optionally** also **content rate** (ppm) of the substance at the product.
 Weight = total weight of the substance in the product.

Content rate [ppm] = Content rate of the substance in the product.
 Example: Bismuth weight = Sum of Bismuth weights in each homogeneous material.

3) Any content = Not contain obviously OR under quantitation limit of accurate analytical method.
NA) Not Applicable. **cust.A** = Customer from Japan **cust.B** = Customer from USA

Material and Substance Declaration (JIG-101 Ed 4.1 and IEC 62474) – page 1 of 3

21.1.2014 the Consumer Electronics Association (CEA), DIGITALEUROPE, and the Japanese Green Procurement Survey Standardization Initiative (JGPSSI) announced that the International Electrochemical Commission standard IEC 62474 (<http://std.iec.ch/iec62474>) is the recommended electrochemical industry's material declaration standard and will replace the Joint Industry Guide (JIG-101 Ed 4.1).

Substance	R (Regulated) JIG Criteria 1	Threshold Level – cust.A	Threshold Level – cust.B	Above threshold level ?			If yes (Y), detailed information of contained substances	
				Level JIG (Y/N)	Level cust.A (Y/N)	Level cust.B (Y/N)	Weight [mg]	Content rate [ppm]
Asbestos	Intentionally added (1)	Any content (1 and 3)	Any content (3)	N	N	N		See JIG-101 for detailed CAS#. Also CAS# 132207-32-0, 132207-33-1.
Certain azocolourants and azocyes (which form certain aromatic amines)	30 ppm by weight of the finished textile/leather product	Intentionally Added or 30 ppm (1)		N	N	N		Must be reported only if it is used for leather/fabric products and those parts where they are likely to result in prolong skin contact. 30 ppm in finished textile or leather articles
Cadmium/Cadmium compounds	100 ppm (1)	20 ppm (resin paint, ink pigment and dying) (1)	5 ppm (1)	N	N	N		
		20 ppm lead free soldering (1)						
		75 ppm metals except for lead free soldering (1)						
	5 ppm by weight of battery	Other materials: Any content (1 and 3)		N	N			
Hexavalent Chromium / Hexavalent Chromium Compounds	1000 ppm (1)	100 ppm Chromate plating (1)		N	N	N		Hexavalent Chromium = Chromium VI, 2011/65/EU (EU/RoHS Directive and its amendments); China Management Measures on EIP Pollution Control; California Electronic Waste Recycling Act SB 20, amended by SB 50 and AB 575; Revised law for Promotion of Effective Utilization of Resources(JMoss); Candidate list for European REACH Regulation No. 1907/2006/EC
		Other materials: Any content (1 and 3)		N	N			
Arsenic/Arsenic Compounds	see SVHC list	1000 ppm (1)	Any content (3)	N	N	N		JIG: see Diarsenic Pentaoxide and Diarsenic Trioxide in SVHC list.
Fluorinated greenhouse gases	Intentionally added (1)	NA	Any content (3)	N	N	N		HFC and PFC. For JIG also SF6. See JIG-101 for detailed CAS-numbers.
Formaldehyde CAS#50-0-0 (wooden materials and furniture)	Intentionally Added (1) Composite wood products or Components	Aerial concentration: 0.1 ml/m3 (1)	Select 1 of following: concentration in the air OR perforator method OR Desiccators method.	N	N	N		cust.A = DE ChemVerbotsV, AT BGGI, Nr. 194/1990, SE KIFS 1998:8 (9, 20-27 §§) cust.B: Select 1 of following: concentration in the air: 0.1 ppm (EN 717-1:2004), or perforator method: 6.5 mg/100g particleboard, 7.0 mg/100g fiberboard (both average value during 6 months), 8.0 mg particle/fiberboard one time measurement based EN 120:1992, or Desiccators method: average content 0.5 mg/l, Maximum content 0.7 mg/l (use N = 2, JIS A 5905 (Fiberboards), JIS A 5908 Particleboards)
Formaldehyde CAS#50-0-0	75 ppm (2) Textiles			N	N	N		
HBCCD	see SVHC list	see "Brominated Flame Retardants (other than PBBs or PBDEs)"						
Lead/Lead Compounds	90 ppm (1) paint or other coating of product for childrens 0.01 mass%, products designed or intended primarily for children 12 years *)	100 ppm (1) resin paint, ink pigment and dying	500 ppm solder (1)	N	N	N		
	40 ppm by weight of battery	1000 ppm for soldering parts of purchasing pwd and components (1)	100 ppm other materials (1)	N	N	N		*)Products designed or intended primarily for children 12 years of age or younger (U.S. Consumer Product Safety Improvement Act as modified by 76 FR 44463)
	0.03 mass% of surface coating material	500 ppm lead free soldering except for above (1)						
	Cables/cords with thermoset or thermoplastic coatings	500 ppm other metal materials (1)						
1000 ppm (1) Other	800 ppm electroless nickel plating (1)		N	N				
Mercury / Mercury compounds	1000 ppm or Intentionally Added (1)	Other materials: Any content (1 and 3)		N	N	N		
	Intentionally added or 1 ppm by weight of battery	0.0005 mass% of total Hg in homogenous material of battery, see CA)		NA	NA	NA		CA) Canadian Products Containing Mercury Regulations (SOR/2014-254)

Material and Substance Declaration (JIG-101 Ed 4.1 and IEC 62474) – page 2 of 3

Substance	R (Regulated) JIG Criteria 1	Threshold Level – cust.A	Threshold Level – cust.B	Above threshold level ?			If yes (Y), detailed information of contained substances		Additional information on material composition of products
				Level JIG (Y/N)	Level cust.A (Y/N)	Level cust.B (Y/N)	Weight [mg]	Content rate [ppm]	
Category Name	Threshold Level – JIG	Threshold Level – cust.A	Threshold Level – cust.B						
Nickel / Nickel Compounds	Intentionally added (1), if prolonged skin contact is expected.	1000 ppm (1)	DIN EN1811: During the testing, flaked nickel should not exceed 0.5 ug/cm2/week	NA	NA	NA			Use of nickel or nickel in components and parts designed to be located inside the outer enclosure of a product need not be reported. Cust.B = cust.C.
Ozone Depleting Substances – Class I (CFCs, HFCs, etc.)	Intentionally added (1)	Any content (1 and 3)	Any content (3)	N	N	N			
Ozone Depleting Substances – Class II (HCFCs)	Intentionally added (1)	1000 ppm (1)	Any content (3)	N	N	N			
Perchlorates	6 x 10 ⁻⁷ mass% of battery or product part	NA	NA	NA	NA	NA			California Assembly Bill No. 826 – Perchlorate Contamination Prevention Act: implemented July 1, 2006. The only known application in use today in electronic industry is coin cell batteries.
Perfluorooctanesulfonic acid (PFOS)	Intentionally added (1)	1 micrograms/m2 in textiles or coated materials. 0.1 weight% (1000ppm) in semi-finished products or articles. 0.005% (50ppm) as substance or constituent of preparations (1)	0.1 wt% textile or other coated materials 1 micrograms/m ² of coated materials. (1)	N	N	N			cust. A = EU 76/769/EEC, 30. amendment, Annex I, No. 52 Exemptions of use (only for cust. A and cust. B): a) photoresists or anti reflective coatings for photolithography processes. b) photographic coatings applied to films, papers, or printing plates, c) mist suppressants for non-decorative hard chromium (VI) plating and wetting agents for use in controlled electroplating systems. PFOS substances, list may not include all variations: US EPA Significant New Use Rule 1: http://www.epa.gov/EPA-TOX/2002/December/Day-09/t31011.htm US EPA Significant New Use Rule 2 (which also include some PFAS molecules): http://www.epa.gov/EPA-TOX/2007/October/Day-09/t19828.htm
Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	Intentionally added (1) or 1 microgram/m2 (as the sum of PFOA). Textiles, photographic coatings applied to films, paper or printing plates and other coated consumer products.	Intentionally added (1) or 0.1 mass% of the part (as the sum of PFOA). All except textiles, photographic coatings applied to films, paper or printing plates and other coated consumer products.	NA	N	N	N			CAS# 335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2 and 3108-24-5. IEC 62474 (Norwegian products regulation Section 2-32).
Pheno.2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-	Intentionally added (1)	NA	NA	N	N	N			CAS# 3846-71-7. Japan (Law Concerning the Examination and Regulation of Manufacture)
Phthalates	1000 ppm (2)	1000 ppm (1)	Any content (3)	N	N	N			CAS# 117-81-7, CAS# 84-74-2, CAS# 85-68-7
Phthalates	1000 ppm of plasticized material (childrens toy that can be placed in a child's mouth or child care article)	1000 ppm (1)	Any content (3)	N	N	N			CAS# 28553-12-0 and CAS# 68515-48-0 (Diisononyl phthalate (DINP)), CAS# 26761-40-0 and CAS# 68515-49-1 (Diisodecyl phthalate (DIDP)), CAS# 117-84-0 for cust. A. and cust. B also DnHP CAS# 84-75-3
Polybrominated Biphenyls (PBBs)	1000 ppm (1)	Any content (1 and 3)	Any content (3)	N	N	N			Also monobromodiphenyl (C12 H9 Br) included.
Polybrominated Diphenylethers (PBDEs)	1000 ppm (1)	Any content (1 and 3)	Any content (3)	N	N	N			JIG includes also DecaBDE CAS# 1163-19-5, see detailed list in JIG-101.
Deca-Bromodiphenylether (Deca-BDE) (PBDE)	Intentionally added (1) TV and computer housings	NA	NA	N	N	N			JIG: TV and computer housings have lower Deca-BDE threshold level.
Polychlorinated Biphenyls (PCBs) and specific substituents	Intentionally added (1)	Any content (1 and 3)	Any content (3)	N	N	N			
Polychlorinated Terphenyls (PCTs)	0.005% by weight (50 ppm) in material	NA	Any content (3)	N	N	N			
Polychlorinated Naphthalenes (> 3 chlorine atoms)	Intentionally added (1)	Any content (1 and 3)	Any content (3)	N	N	N			
Radioactive Substances	Intentionally added (1)	1000 ppm (1)	Any content (3)	N	N	N			
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	Intentionally added or 0.1 mass %	Any content (1 and 3)	Any content (3)	N	N	N			SCCP, CAS# 85535-84-8, 108171-26-2, 71011-12-6, 61788-76-9. Candidate list for European REACH Regulation No. 1907/2006/EC; (EC) 850/2004(POPs regulation); Norway Product Regulations FOR-2004-06-01-922; Swiss Ordinance on Reduction of Risk from Chemical Products.
Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT) compounds	Intentionally added (1)	Any content (1 and 3)	Any content (3)	N	N	N			Also Tributyl tin bromide (CAS# 1461-23-0), Triphenyl tin (CAS# 668-34-8), Triphenyl tin bromide (C6 H5)3 Sn Br and Mixture of tributyl tin cyclopentanecarboxylate and its analogs (Tributyl tin naphthenate, CAS# 85409-17-12).
Tributyl Tin Oxide (TBTO)	1000 ppm or Intentionally Added (2)	Any content (1 and 3)	NA	N	N	N (3)			
Antimony/Antimony Compounds	NA	1000 ppm (1)	NA	N	N	N (3)			
Beryllium/Beryllium Compounds (JIG: only Beryllium Oxide)	1000 ppm (2) criteria 3 – I (for information only)	1000 ppm (1)	Any content (3)	N	N	N			For JIG: reportable applications: ceramics
Bismuth/Bismuth Compounds	NA	1000 ppm (1)	NA	N	N	N (3)			
Brominated Flame Retardants (other than PBBs or PBDEs)	1000 ppm (2) criteria 3 – I (for information only)	1000 ppm (1)	1000 ppm (1)	N	N	N			cust.B: TBBP-A-bis (CAS# 21850-44-2), JIG: (other than PBBs or PBDEs or Hexabromocyclododecane(HBCDD)) JS709, 0.1% total bromine content by weight (1 000 ppm) in the plastic material, see Annex B of JIG-101 for detailed Substance Lists with CAS Numbers and/or EC Numbers.
Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Industry Standards IEC 61249-2-21 and IPC-4101	0.09 mass% total bromine content in laminate. Criteria 3 – I (for information only)	NA	N	N	N			A printed wiring board laminate refers to the layered board materials excluding surface finishes and components whereas a printed wiring board assembly refers to an assembly that uses a printed wiring board laminate for component mounting and interconnecting purposes.
Selenium/Selenium Compounds	NA	1000 ppm (1)	NA	N	N	N (3)			
Polyvinyl Chloride (PVC) and PVC Copolymers	1000 ppm (2) criteria 3 – I (for information only)	1000 ppm (1)	Any content (3)	N	N	N			JS709, 0.1% total chlorine content by weight (1 000 ppm) in the plastic material. See Annex B of JIG-101 for detailed Substance Lists with CAS Numbers and/or EC Numbers.

Material and Substance Declaration (JIG-101 Ed 4.1 and IEC 62474) – page 3 of 3

Substance	Threshold Level – JIG	Threshold Level – cust.A	Threshold Level – cust.B	Above threshold level ?			If yes (Y), detailed information of contained substances		Additional information on material composition of products
				Level JIG (Y/N)	Level cust.A (Y/N)	Level cust.B (Y/N)	Weight [mg]	Content rate [ppm]	
Category Name	Threshold Level – JIG	Threshold Level – cust.A	Threshold Level – cust.B	Level JIG (Y/N)	Level cust.A (Y/N)	Level cust.B (Y/N)	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Tris (2-chloroethyl) phosphate (TCEP)	1000 ppm (2) criteria 2 – A (for Assessment only)	NA	NA	N	N	N			CAS# 115-96-8, requirement from ECHA Registry of Intentions
Dibutyltin (DBT) compounds	0.1 % by weight (1000 ppm) of tin in a material *)	NA	NA	N	N	N			*) Commission Regulation (EU) No 276/2010 defines a concentration limit of 0.1% by weight of tin in the article or part thereof. Likewise Commission Decision 2009/251/EC defines a concentration limit of 0.00001% by weight of DMF in the product or part of the product and Commission Regulation (EC) No 552/2009 defines a concentration limit of 0.1% by weight of PFOS in the semfinished product or article or part thereof. Because no legal definition of part is provided in these legislations, the most potentially restrictive concentration limit is not adequately specified. Therefore, the concentration limit is applied at the level of a material vs. a part to ensure disclosure of the regulated substances for the most basic unit of a part.
Diocetyl tin (DOT) compounds	0.1 % by weight (1000 ppm) of tin in a material *)	NA	NA	N	N	N			ANNEX XVII of REACH Regulation (EC) No 1907/2006 and Commission Regulation (EU) No 276/2010
Tri-substituted organostannic compounds	Intentionally added (1) or 0.1 % by weight (1000 ppm) of tin in a material *)	NA	NA	N	N	N			ANNEX XVII of REACH Regulation (EC) No 1907/2006 and Commission Regulation (EU) No 276/2010; Japan Law concerning the evaluation of chemical substances Norwegian product regulation
Chlorinated flame retardants (CFR)	IPC-4101 and IEC 61249-2-21	0.09 mass% total chlorine content in laminate (Printed Wiring Board (PWB) Laminates). Criteria 3 - 1 (for information only)	NA	N	N	N			A printed wiring board laminate refers to the layered board materials excluding surface finishing and components. See IEC 62474 Reference Substance worksheet for more details (CAS Numbers and/or EC Numbers, etc.).
Chlorinated flame retardants (CFR)	0.1% total chlorine content by weight (1 000 ppm) in the plastic material – 1 (for information only)	NA	NA	N	N	N			JS709, see Annex B of JIG-101 for detailed Substance Lists with CAS Numbers and/or EC Numbers.
Benzo[a]pyrene	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS# 50-32-8. Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles. This declarable substance is a polycyclic aromatic hydrocarbon (PAH). ANNEX XVII of REACH Regulation (EC) No 1907/2006 and Commission Regulation (EU) No 1272/2013
Benzo[e]pyrene	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS#192-97-2. See description above (Rubber or)
Benzo[a]anthracene	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS# 56-55-3. See description above (Rubber or)
Chrysen	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS# 218-01-9. See description above (Rubber or)
Benzo[b]fluoranthene	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS# 205-99-2. See description above (Rubber or)
Benzo[j]fluoranthene	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS# 205-82-3. See description above (Rubber or)
Benzo[k]fluoranthene	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS# 207-08-9. See description above (Rubber or)
Dibenzo[a,h]anthracene	IEC 62474 date 24.9.2014	0.0001 mass% of the plastic or rubber part	NA	N	N	N			CAS# 53-70-3. See description above (Rubber or)
Benzo[a]pyrene	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 50-32-8. Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact. This declarable substance is a polycyclic aromatic hydrocarbon (PAH). ANNEX XVII of REACH Regulation (EC) No 1907/2006 and Commission Regulation (EU) No 1272/2013.
Benzo[e]pyrene	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 192-97-2. See description above (Rubber or)
Benzo[a]anthracene	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 56-55-3. See description above (Rubber or)
Chrysen	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 218-01-9. See description above (Rubber or)
Benzo[b]fluoranthene	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 205-99-2. See description above (Rubber or)
Benzo[j]fluoranthene	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 205-82-3. See description above (Rubber or)
Benzo[k]fluoranthene	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 207-08-9. See description above (Rubber or)
Dibenzo[a,h]anthracene	IEC 62474 date 24.9.2014	0.00005 mass% of the plastic or rubber part	NA	N	N	N			CAS# 53-70-3. See description above (Rubber or)
Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene	IEC 62474 date 8.4.2015	Intentionally added. Reportable applications: All	NA	N	N	N			CAS# 68921-45-9. Typical applications: Lubricating agent in motors, storage drives; lubricant additive (antioxidant/corrosion inhibitor/tamish inhibitor/scavenger/antiscalant agent), mould release agent; organic chemical for industrial use. Prohibition of Certain Toxic Substances Regulations, 2012, CANADA

See also SVHC list in the end of this document

Additional Material and Substance Declarations:

Substance	Threshold Level	Threshold Level – cust.B	Above threshold level ?		If yes (Y), detailed information of contained substances		
			Level (Y/N)	Level cust.B (Y/N)	Weight [mg]	Content rate [ppm]	
Category Name	Threshold Level	Threshold Level – cust.B	Level (Y/N)	Level cust.B (Y/N)	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Cobalt Chloride	0.01 weight% (100 ppm) (1)	NA	N	N			As for the service parts, the professional products, and the transportation parts, when the content exceeds 100ppm to less than 10000ppm display the text "Restricted to professional user" to the cobalt chloride inclusion quality wrapping, Directives of EU: 2003/34/EC, 98/98/EC and 2004/73/EC.
Phthalate esters	1000 ppm (1)	Any content (3)	N	N			See also "Phthalates" in previous table of this document.
Mirex (Perchlordecone)	Intentionally added (1)	Any content (3)	N	N			CAS# 2385-85-5. Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24
Hydrofluorocarbon (HFC), Perfluorocarbon (PFC)	Any content (3)	Any content (3)	N	N			
Halogen-Bromine (Br)		>900 ppm (1)	N	N			IEC 61249-2-21:2003
Halogen-Chlorine (Cl)		>900 ppm (1)	N	N			IEC 61249-2-21:2003
Total Halogen Br + Cl		>1500 ppm (1)	N	N			IEC 61249-2-21:2003
Halogenated aromatic substances		500 ppm for mono- or 50 ppm for poly-halogenated aromatic substances.	N	N			
Halogenated diphenyl methanes	Any content (3)	Any content (3)	N	N			JIG-101 (PCB+PCT) includes CAS# 76253-60-6, CAS# 99688-47-8 and Uglec121, Uglec 21.
Brominated dioxins/furans and Chlorinated dioxins/furans	10 ppb (1)	Any content (3)	N	N			ChemVerbotsV, information source "2008 GADSL Version 2.0"
Specific benzotriazole	Any content (3)	Any content (3)	N	N			Japan, Law Concerning the Examination and Regulation of Manufacture of Chemical Substances, Class I.
Organic tin compounds (excluding TBT, TPT, TBTO)	1000 ppm (1) also JIG criteria 1 R.	NA	N	N			Including Dibutyltin compounds. See also TBT, TPT and TBTO in one of the previous tables of this document.
Certain Glycol Ethers see list in the end of this doc	use in manufacture of semiconductors, 1000 ppm (1)	5 ppm (1)	N	N			EU-D 67/548/EEC, information source "2008 GADSL Version 2.0"
Dimethyl Fumarate (DMF)	JIG criteria 1 R: 0.00001% by weight (0.1 ppm) in a material *)	NA	N	N			CAS# 624-49-7. COMMISSION DECISION 2009/251/EC. note *) for Dibutyltin (DBT) compounds applies also for DMF.
Red phosphorous	Intentionally added (1)	1000 ppm (1)	N	N			Red phosphorous CAS 7723-14-0 should not be used to substitute Brominated Flame Retardants due to historical industry experience with reliability concerns.

Semiconductor industry voluntary banned the use of certain ethylene glycol ethers in manufacture of semiconductors.

Certain Glycol Ethers	CAS Numbers
2-Ethoxyethanol (or Ethylene glycol monoethyl ether)	110-80-5
2-Ethoxyethyl acetate	111-15-9
2-Methoxyethanol (or Ethylene glycol monomethyl ether)	109-86-4
2-Methoxyethyl acetate	110-49-6
Diethylene glycol dimethyl ether	111-96-6

List of Substances of Very High Concern (SVHC) – page 1 of 7

https://echa.europa.eu/candidate-list-table

Number of substances on the Candidate List: 174 (last updated: 07.07. 2017)

Substance			If yes (Y), detailed information of contained substances	
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]
Triethyl arsenate	0.1 % Weight (2)	N		EC Number: 427-700-2. CAS Number: 15606-95-8. Article 57(a) of Regulation (EC) 1907/2006 (REACH).
Anthracene	0.1 % Weight (2)	N		EC Number: 204-371-1 CAS Number: 120-12-7. PBT substance according to Article 57 (d) of Regulation (EC) No 1907/2006 (REACH).
4,4'-Diaminodiphenylmethane (MDA)	0.1 % Weight (2)	N		EC Number: 202-974-4 CAS number: 101-77-9. Article 57(a) of Regulation (EC) 1907/2006 (REACH).
Dibutyl phthalate (DBP)	0.1 % Weight (1) (IEC 62474, 2015-12-17)	N		EC Number: 201-557-4 CAS number: 84-74-2. Article 57 (c) of Regulation (EC) 1907/2006 (REACH).
Cobalt dichloride	0.1 % Weight (2) (also JIG criteria 1 R)	N		EC number: 231-589-4 CAS number: 7646-79-9. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Diarsenic Pentaoxide	0.1 % Weight (2) (also JIG criteria 1 R)	N		EC Number: 215-116-9 CAS number: 1303-28-2. Article 57 (a) of Regulation (EC) No 1907/2006 (REACH).
Diarsenic Trioxide	0.1 % Weight (2) (also JIG criteria 1 R)	N		EC Number: 215-481-4 CAS number: 1327-53-3. Article 57 (a) of Regulation (EC) No 1907/2006 (REACH).
Sodium dichromate	0.1 % Weight (2)	N		EC number: 234-190-3 CAS number: 10588-01-9 (anhydrous) 7789-12-0 (dihydrate). Article 57(a), (b) and (c) of Regulation (EC) 1907/2006 (REACH).
5-tert-butyl – 2,4,6 – trinitro-m-xylene (musk xylene)	0.1 % Weight (2)	N		EC Number: 201-329-4 CAS number: 81-15-2. Article 57(e) of Regulation (EC) No 1907/2006 (REACH).
Bis(2-ethylhexyl)phthalate (DEHP)	0.1 % Weight (1) (IEC 62474, 2015-12-17)	N		EC Number: 204-211-0 CAS number: 117-81-7. Article 57 (c) of Regulation (EC) 1907/2006 (REACH). Equivalent level of concern having probable serious effects to the environment (Article 57 f), Toxic for reproduction (article 57c) (REACH updated 2014/12/17).
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	0.1 % Weight (2) (also IEC 62474: Intentionally added or 0.1 mass%)	N		EC Number: 221-695-9, 247-148-4 CAS number: 3194-55-6, 25637-99-4 Names of the major diastereoisomers identified: alpha-hexabromocyclododecane CAS No 134237-50-6 beta-hexabromocyclododecane CAS No 134237-51-7 gamma-hexabromocyclododecane CAS No 134237-52-8. Article 57 (d) of Regulation (EC) No 1907/2006 (REACH).
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	0.1 % Weight (2)	N		EC Number: 287-476-5 CAS number: 85535-84-8. Article 57 (d and e) of Regulation (EC) No 1907/2006 (REACH).
Bis(tributyltin) oxide (TBTO)	0.1 % Weight (2)	N		EC Number: 200-268-0 CAS number: 56-35-9. Article 57 (d) of Regulation (EC) No 1907/2006 (REACH).
Lead hydrogen arsenate	0.1 % Weight (2)	N		EC Number: 232-064-2 CAS number: 7784-40-9. Article 57 (a and c) of Regulation (EC) No 1907/2006 (REACH).
Benzyl butyl phthalate (BBP)	0.1 % Weight (1) (IEC 62474, 2015-12-17)	N		EC Number: 201-622-7 CAS number: 85-68-7. Article 57 (c) of Regulation (EC) 1907/2006 (REACH).
2,4-Dinitrotoluene	0.1 % Weight (2)	N		EC number: 204-450-0 CAS# 121-14-2, Carcinogenic (article 57a)
Aluminosilicate Refractory Ceramic Fibres	0.1 % Weight (2) (also JIG criteria 1 R)	N		Carcinogenic (article 57a). Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less than two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight.
Anthracene oil	0.1 % Weight (2)	N		EC number: 292-602-7 CAS# 90640-80-5. Carcinogenic (see Detail 1) below the table), PBT and vPvB (articles 57a, 57d and 57e).
Anthracene oil, anthracene-low	0.1 % Weight (2)	N		EC number:292-604-8 CAS# 90640-82-7. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below the table), PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste	0.1 % Weight (2)	N		EC number:292-603-2 CAS# 90640-81-6. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below the table), PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste, anthracene fraction	0.1 % Weight (2)	N		EC number: 295-275-9 CAS# 91995-15-2. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below the table), PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste, distn. Lights	0.1 % Weight (2)	N		EC number: 295-278-5 CAS#91995-17-4. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below the table), PBT and vPvB (articles 57a, 57b, 57d and 57e)
Diisobutyl phthalate (DIBP)	0.1 % Weight (1) (IEC 62474, 2015-12-17)	N		EC number: 201-553-2 CAS# 84-69-5. Toxic for reproduction (article 57c)
Lead chromate	0.1 % Weight (2) (also JIG criteria 1 R)	N		EC number: 231-846-0 CAS# 7758-97-6. Carcinogenic and toxic for reproduction (articles 57a and c)

Detail 1) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5)

Detail 2) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5) and less than 0,1 % w/w benzene (EINECS No 200-753-7).

Detail 3) The substance does not meet the criteria for identification as a mutagen in situations where it contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

To be continued on the next page !!

List of Substances of Very High Concern (SVHC) – page 2 of 7

Substance			If yes (Y), detailed information of contained substances		
	Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	0.1 % Weight (2) (also JIG criteria 1 R)	N			EC number: 235-759-9 CAS# 12656-85-8. Carcinogenic and toxic for reproduction (articles 57a and c)
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	0.1 % Weight (2) (also JIG criteria 1 R)	N			EC number: 215-693-7 CAS# 1344-37-2. Carcinogenic and toxic for reproduction (articles 57a and c)
Pitch, coal tar, high temp.	0.1 % Weight (2)	N			EC number: 266-028-2 CAS# 65996-93-2. Carcinogenic, FBT and vPvB (articles 57a, 57d and 57e)
Tris(2-chloroethyl)phosphate	0.1 % Weight (2)	N			EC number: 204-118-5 CAS# 115-96-9. Toxic for reproduction (article 57c)
Zirconia Aluminosilicate Refractory Ceramic Fibres	0.1 % Weight (2) (also JIG criteria 1 R)	N			Zirconia Aluminosilicate Refractory Ceramic Fibres - are fibres covered by index number 850-017-00-9 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight. Carcinogenic (article 57 a)
Acrylamide	0.1 % Weight (2)	N			EC number: 201-173-7 CAS# 79-06-1. Carcinogenic and mutagenic (articles 57 a and 57 b)
Trichloroethylene	0.1 % Weight (2)	N			EC number: 201-167-4 CAS# 79-01-6. Carcinogenic (article 57 a)
Boric acid	0.1 % Weight (2) (also JIG criteria 1 R)	N			EC number: 233-139-2 / 234-343-4 CAS# 10043-35-3 / 11113-50-1. Toxic for reproduction (article 57 c)
Disodium tetraborate, anhydrous	0.1 % Weight (2) (also JIG criteria 1 R)	N			EC number: 215-540-4 CAS# 1303-96-4 / 1330-43-4 / 12179-04-3. Toxic for reproduction (article 57 c)
Tetaboron disodium heptaoxide, hydrate	0.1 % Weight (2) (also JIG criteria 1 R)	N			EC number: 235-541-3 CAS# 12267-73-1. Toxic for reproduction (article 57 c)
Potassium dichromate	0.1 % Weight (2)	N			EC number: 231-906-6 CAS# 7778-50-9. Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Ammonium dichromate	0.1 % Weight (2)	N			EC number: 232-143-1 CAS# 7789-09-5. Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Potassium chromate	0.1 % Weight (2)	N			EC number: 232-140-5 CAS# 7789-00-6. Carcinogenic and mutagenic (articles 57 a and 57 b)
Sodium chromate	0.1 % Weight (2)	N			EC number: 231-889-5 CAS# 7775-11-3. Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Cobalt(II) sulphate	0.1 % Weight (2)	N			EC number: 233-334-2 CAS# 10124-43-3. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) dinitrate	0.1 % Weight (2)	N			EC number: 233-402-1 CAS# 10141-05-6. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) carbonate	0.1 % Weight (2)	N			EC number: 208-169-4 CAS# 513-79-1. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) diacetate	0.1 % Weight (2)	N			EC number: 200-755-8 CAS# 71-48-7. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
2-Methoxyethanol	0.1 % Weight (2)	N			EC number: 203-713-7 CAS# 109-86-4. Toxic for reproduction (article 57c)
2-Ethoxyethanol	0.1 % Weight (2)	N			EC number: 203-804-1 CAS# 110-80-5. Toxic for reproduction (article 57c)
Chromium trioxide	0.1 % Weight (2)	N			EC number: 215-607-8 CAS# 1333-82-0. Carcinogenic and mutagenic (articles 57 a and 57 b)
a) Chromic acid, b) Oligomers of chromic acid and dichromic acid, c) Dichromic acid	0.1 % Weight (2)	N			EC number: a) 231-801-5 b) - c) 236-881-5 CAS# a) 7738-94-5 b) – c) 13530-68-2. Carcinogenic (article 57a)
2-Ethoxyethyl acetate	0.1 % Weight (2)	N			EC Number: 203-839-2 CAS number: 111-15-9. Toxic for reproduction (article 57c)
Strontium chromate	0.1 % Weight (2)	N			EC Number: 232-142-6 CAS number: 7789-06-2. Carcinogenic (article 57a)
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	0.1 % Weight (2) (also JIG criteria A)	N			EC Number: 271-084-6 CAS number: 68515-42-4. Toxic for reproduction (article 57c)
Hydrazine	0.1 % Weight (2)	N			EC Number: 206-114-9 CAS number: 302-01-2 / 7803-57-8. Carcinogenic (article 57a)
1-Methyl-2-pyrrolidone	0.1 % Weight (2)	N			EC Number: 212-828-1 CAS number: 872-50-4. Toxic for reproduction (article 57c)
1,1,2,3-Trichloropropane	0.1 % Weight (2)	N			EC Number: 202-486-1 CAS number: 96-18-4. Carcinogenic and toxic for reproduction (articles 57 a and 57 c).
1,2-Benzenedicarboxylic acid, di-C6-9-branched alkyl esters, C7-rich (DIHP)	0.1 % Weight (2) (also JIG criteria A)	N			EC Number: 276-158-1 CAS number: 71888-89-6. Toxic for reproduction (article 57c)

List of Substances of Very High Concern (SVHC) – page 3 of 7

Substance			If yes (Y), detailed information of contained substances		
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
4-(1,1,3,3-tetramethylbutyl)phenol	0.1 % Weight (2)	N			EC Number: 205-426-2, CAS number: 140-66-9, Equivalent level of concern having probable serious effects to the environment (article 57 f)
N,N-dimethylacetamide	0.1 % Weight (2)	N			EC Number: 204-826-4, CAS number: 127-19-5, Toxic for reproduction (article 57 c)
Phenolphthalein	0.1 % Weight (2)	N			EC Number: 201-004-7, CAS number: 77-09-8, Carcinogenic (article 57 a)
Lead diazide, Lead azide	0.1 % Weight (2)	N			EC Number: 236-542-1, CAS number: 13424-46-9, Toxic for reproduction (article 57 c),
Lead dipicrate	0.1 % Weight (2)	N			EC Number: 229-335-2, CAS number: 6477-64-1, Toxic for reproduction (article 57 c)
1,2-dichloroethane	0.1 % Weight (2)	N			EC Number: 203-458-1, CAS number: 107-06-2, Carcinogenic (article 57 a)
Calcium arsenate	0.1 % Weight (2)	N			EC Number: 231-904-5, CAS number: 7778-44-1, Carcinogenic (article 57 a)
Dichromium tris(chromate)	0.1 % Weight (2)	N			EC Number: 246-356-2, CAS number: 24613-89-6, Carcinogenic (article 57 a)
2-Methoxyaniline; o-Anisidine	0.1 % Weight (2)	N			EC Number: 201-963-1, CAS number: 90-04-0, Carcinogenic (article 57 a)
Pentazinc chromate octahydroxide	0.1 % Weight (2)	N			EC Number: 256-418-0, CAS number: 49663-84-5, Carcinogenic (article 57 a)
Arsenic acid	0.1 % Weight (2)	N			EC Number: 231-901-9, CAS number: 7778-39-4, Carcinogenic (article 57 a)
Potassium hydroxyoctaoxodizincate-dichromate	0.1 % Weight (2)	N			EC Number: 234-329-8, CAS number: 11103-86-9, Carcinogenic (article 57 a)
Formaldehyde, oligomeric reaction products with aniline	0.1 % Weight (2)	N			EC Number: 500-036-1, CAS number: 25214-70-4, Carcinogenic (article 57 a)
Lead styphnate	0.1 % Weight (2)	N			EC Number: 239-290-0, CAS number: 15245-44-0, Toxic for reproduction (article 57 c)
Trilead diarsenate	0.1 % Weight (2)	N			EC Number: 222-979-5, CAS number: 3687-31-8, Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Bis(2-methoxyethyl) phthalate	0.1 % Weight (2)	N			EC Number: 204-212-6, CAS number: 117-82-8, Toxic for reproduction (article 57 c)
Bis(2-methoxyethyl) ether	0.1 % Weight (2)	N			EC Number: 203-924-4, CAS number: 111-96-6, Toxic for reproduction (article 57 c)
2,2'-dichloro-4,4'-methylenedianiline	0.1 % Weight (2)	N			EC Number: 202-918-9, CAS number: 101-14-4, Carcinogenic (article 57 a)
o,o-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	0.1 % Weight (2)	N			EC Number: 229-851-8, CAS number: 6786-83-0, Carcinogenic (Article 57a)
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	0.1 % Weight (2)	N			EC Number: 202-959-2, CAS number: 101-61-1, Carcinogenic (Article 57a)
1,3,5-tris(2S and 2R)-2,3-epoxypropyl-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (B-TGIC)	0.1 % Weight (2)	N			EC Number: 423-400-0, CAS number: 59653-74-6, Mutagenic (Article 57b)
Diboron trioxide	0.1 % Weight (2)	N			EC Number: 215-125-8, CAS number: 1303-86-2, Toxic for reproduction (Article 57 c)
1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	0.1 % Weight (2)	N			EC Number: 203-977-3, CAS number: 112-49-2, Toxic for reproduction (Article 57 c)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	0.1 % Weight (2)	N			EC Number: 209-218-2, CAS number: 561-41-1, Carcinogenic (Article 57a)
Lead(II) bis(methanesulfonate)	0.1 % Weight (2)	N			EC Number: 401-750-5, CAS number: 17570-76-2, Toxic for reproduction (Article 57 c)

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Substance	If yes (Y), detailed information of contained substances					
	Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Formamide		0.1 % Weight (2)	N			EC Number: 200-842-0, CAS number: 75-12-7, Toxic for reproduction (Article 57 c)
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		0.1 % Weight (2) (also JIG criteria A)	N			EC Number: 208-953-6, CAS number: 548-62-9, Carcinogenic (Article 57a)
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)		0.1 % Weight (2)	N			EC Number: 203-794-9, CAS number: 110-71-4, Toxic for reproduction (Article 57 c)
[4-[4-amino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		0.1 % Weight (2)	N			EC Number: 219-943-6, CAS number: 2580-56-5, Carcinogenic (Article 57a)
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)		0.1 % Weight (2)	N			EC Number: 219-514-3, CAS number: 2451-62-9, Mutagenic (Article 57b)
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)		0.1 % Weight (2)	N			EC Number: 202-027-5, CAS number: 90-94-8, Carcinogenic (Article 57a)
Date of inclusion to SVHC 19.12.2012						
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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]		0.1 % Weight (2)	N			EC Number: 247-094-1, 243-072-0, 256-356-4, 260-566-1, CAS number: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9, Equivalent level of concern having probable serious effects to human health (Article 57 f)
6-methoxy-m-toluidine (p-cresidine)		0.1 % Weight (2)	N			EC Number: 204-419-1, CAS number: 120-71-8, Carcinogenic (Article 57a)
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]		0.1 % Weight (2)	N			EC Number: 201-604-9, 236-086-3, 238-009-9, CAS number: 85-42-7, 13149-00-3, 14166-21-3, Equivalent level of concern having probable serious effects to human health (Article 57 f)
Pyrochlore, antimony lead yellow		0.1 % Weight (2)	N			EC Number: 232-382-1, CAS number: 8012-00-8, Toxic for reproduction (Article 57 c)
Henicosafuoroundecanoic acid		0.1 % Weight (2)	N			EC Number: 218-165-4, CAS number: 2058-94-8, vPvB (Article 57 e)
4-Aminoazobenzene		0.1 % Weight (2)	N			EC Number: 200-453-6, CAS number: 60-09-3, Carcinogenic (Article 57 a)
Silicic acid, lead salt		0.1 % Weight (2)	N			EC Number: 234-363-3, CAS number: 11120-22-2, Toxic for reproduction (Article 57 c)
Lead titanium zirconium oxide		0.1 % Weight (2)	N			EC Number: 235-727-4, CAS number: 12626-81-2, Toxic for reproduction (Article 57 c)
Lead monoxide (lead oxide)		0.1 % Weight (2)	N			EC Number: 215-267-0, CAS number: 1317-36-8, Toxic for reproduction (Article 57 c)
o-Toluidine		0.1 % Weight (2)	N			EC Number: 202-429-0, CAS number: 95-53-4, Carcinogenic (Article 57a)
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		0.1 % Weight (2)	N			EC Number: 421-150-7, CAS number: 143860-04-2, Toxic for reproduction (Article 57 c)

List of Substances of Very High Concern (SVHC) – page 5 of 7

Substance			If yes (Y), detailed information of contained substances			
	Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Dibutyltin dichloride (DBTC)	0.1 % Weight (2)		N			EC Number: 211-670-0, CAS number: 683-18-1, Toxic for reproduction (Article 57 c)
Lead bis(tetrafluoroborate)	0.1 % Weight (2)		N			EC Number: 237-486-0, CAS number: 13814-96-5, Toxic for reproduction (Article 57 c)
Lead dinitrate	0.1 % Weight (2)		N			EC Number: 233-245-9, CAS number: 10099-74-8, Toxic for reproduction (Article 57 c)
Silicic acid (H ₂ SiO ₃), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for toxicity for reproduction Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	0.1 % Weight (2)		N			EC Number: 272-271-5, CAS number: 68784-75-8, Toxic for reproduction (Article 57 c)
Trilead bis(carbonate)dihydroxide	0.1 % Weight (2)		N			EC Number: 215-290-6, CAS number: 1319-46-6, Toxic for reproduction (Article 57 c)
4,4'-methylene-di-o-toluidine	0.1 % Weight (2)		N			EC Number: 212-658-8, CAS number: 838-88-0, Carcinogenic (Article 57a)
Diethyl sulphate	0.1 % Weight (2)		N			EC Number: 200-589-6, CAS number: 64-67-5, Carcinogenic (Article 57a); Mutagenic (Article 57b)
Dimethyl sulphate	0.1 % Weight (2)		N			EC Number: 201-058-1, CAS number: 77-78-1, Carcinogenic (Article 57a)
N,N-dimethylformamide	0.1 % Weight (2)		N			EC Number: 200-679-5, CAS number: 68-12-2, Toxic for reproduction (Article 57 c)
4-(1,1,3,3-tetraethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	0.1 % Weight (2)		N			Equivalent level of concern having probable serious effects to the environment (Article 57 f)
4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	0.1 % Weight (2)		N			Equivalent level of concern having probable serious effects to the environment (Article 57 f)
Furan	0.1 % Weight (2)		N			EC Number: 203-727-3, CAS number: 110-00-9, Carcinogenic (Article 57a)
Lead oxide sulfate	0.1 % Weight (2)		N			EC Number: 234-853-7, CAS number: 12036-76-9, Toxic for reproduction (Article 57 c)
Lead titanium trioxide	0.1 % Weight (2)		N			EC Number: 235-038-9, CAS number: 12060-00-3, Toxic for reproduction (Article 57 c)
Bis(pentabromophenyl) ether (decaBDE)	0.1 % Weight (2)		N			EC Number: 214-604-9, CAS number: 1163-19-5, PBT (Article 57 d); vPvB (Article 57 e)
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	0.1 % Weight (2)		N			EC Number: 201-861-7, CAS number: 88-85-7, Toxic for reproduction (Article 57 c)
1,2-Diethoxyethane	0.1 % Weight (2)		N			EC Number: 211-076-1, CAS number: 629-14-1, Toxic for reproduction (Article 57 c)
N-methylacetamide	0.1 % Weight (2)		N			EC Number: 201-182-6, CAS number: 79-16-3, Toxic for reproduction (Article 57 c)
Tetralead trioxide sulphate	0.1 % Weight (2)		N			EC Number: 235-380-9, CAS number: 12202-17-4, Toxic for reproduction (Article 57 c)
Acetic acid, lead salt, basic	0.1 % Weight (2)		N			EC Number: 257-175-3, CAS number: 51404-69-4, Toxic for reproduction (Article 57 c)
[Phthalato(2-)]dioxotrilead	0.1 % Weight (2)		N			EC Number: 273-688-5, CAS number: 69011-06-9, Toxic for reproduction (Article 57 c)
Tetraethyllead	0.1 % Weight (2)		N			EC Number: 201-075-4, CAS number: 78-00-2, Toxic for reproduction (Article 57 c)
N-pentyl-isopentylphthalate	0.1 % Weight (2)		N			CAS number: 776297-69-9, Toxic for reproduction (Article 57 c)
Pentalead tetraoxide sulphate	0.1 % Weight (2)		N			EC Number: 235-067-7, CAS number: 12065-90-6, Toxic for reproduction (Article 57 c)
Heptacosulfurotetradecanoic acid	0.1 % Weight (2)		N			EC Number: 206-803-4, CAS number: 376-06-7, vPvB (Article 57 e)
Tricosulfurododecanoic acid	0.1 % Weight (2)		N			EC Number: 206-203-2, CAS number: 307-55-1, vPvB (Article 57 e)
1-bromopropane (n-propyl bromide)	0.1 % Weight (2)		N			EC Number: 203-445-0, CAS number: 106-94-5, Toxic for reproduction (Article 57 c)
Dioxobis(stearato)trilead	0.1 % Weight (2)		N			EC Number: 235-702-8, CAS number: 12578-12-0, Toxic for reproduction (Article 57 c)
Pentacosulfurotridecanoic acid	0.1 % Weight (2)		N			EC Number: 276-745-2, CAS number: 72629-94-8, vPvB (Article 57 e)
Methoxyacetic acid	0.1 % Weight (2)		N			EC Number: 210-894-6, CAS number: 625-45-6, Toxic for reproduction (Article 57 c)
Methyloxirane (Propylene oxide)	0.1 % Weight (2)		N			EC Number: 200-879-2, CAS number: 75-56-9, Carcinogenic (Article 57a); Mutagenic (Article 57b)
Trilead dioxide phosphonate	0.1 % Weight (2)		N			EC Number: 235-252-2, CAS number: 12141-20-7, Toxic for reproduction (Article 57 c)

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Substance			If yes (Y), detailed information of contained substances			
	Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
o-aminoazotoluene	0.1 % Weight (2)	N			EC Number: 202-591-2, CAS number: 97-56-3, Carcinogenic (Article 57a)	
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	0.1 % Weight (2)	N			EC Number: 202-453-1, CAS number: 95-80-7, Carcinogenic (Article 57a)	
Diisopentylphthalate	0.1 % Weight (2)	N			EC Number: 210-088-4, CAS number: 605-50-5, Toxic for reproduction (Article 57 c)	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	0.1 % Weight (2)	N			EC Number: 284-032-2, CAS number: 84777-06-0, Toxic for reproduction (Article 57 c)	
Biphenyl-4-ylamine	0.1 % Weight (2)	N			EC Number: 202-177-1, CAS number: 92-67-1, Carcinogenic (Article 57a)	
Fatty acids, C16-18, lead salts	0.1 % Weight (2)	N			EC Number: 292-966-7, CAS number: 91031-62-8, Toxic for reproduction (Article 57 c)	
Orange lead (lead tetroxide)	0.1 % Weight (2)	N			EC Number: 215-235-6, CAS number: 1314-41-6, Toxic for reproduction (Article 57 c)	
4,4'-oxydianiline and its salts	0.1 % Weight (2)	N			EC Number: 202-977-0, CAS number: 101-80-4, Carcinogenic (Article 57a); Mutagenic (Article 57b)	
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	0.1 % Weight (2)	N			EC Number: 204-650-8, CAS number: 123-77-3, Equivalent level of concern having probable serious effects to human health (Article 57 f)	
Sulfurous acid, lead salt, dibasic	0.1 % Weight (2)	N			EC Number: 263-467-1, CAS number: 62229-08-7, Toxic for reproduction (Article 57 c)	
Lead cyanamide	0.1 % Weight (2)	N			EC Number: 244-073-9, CAS number: 20837-86-9, Toxic for reproduction (Article 57 c)	
Date of inclusion to SVHC 20.6.2013						
Cadmium	0.1 % Weight (2)	N			EC Number: 231-152-8, CAS Number: 7440-43-9, Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	
Ammonium perftalatefluorooctanoate (APFO)	0.1 % Weight (2)	N			EC Number: 223-320-4, CAS Number: 3825-26-1, Toxic for reproduction (Article 57 c); PBT (Article 57 d)	
4-Nonylphenol, branched and linear, ethoxylated	0.1 % Weight (2)	N			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], Equivalent level of concern having probable serious effects to the environment (Article 57 f)	
Pentadecafluorooctanoic acid (PFOA)	0.1 % Weight (2)	N			EC Number: 206-397-9, CAS Number: 335-67-1, Toxic for reproduction (Article 57 c); PBT (Article 57 d)	
Dipentyl phthalate (DPP)	0.1 % Weight (2)	N			EC Number: 205-017-9, CAS Number: 131-18-0, Toxic for reproduction (Article 57 c);	
Cadmium oxide	0.1 % Weight (2)	N			EC Number: 215-146-2, CAS Number: 1306-19-0, Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	
Date of inclusion to SVHC 16.12.2013						
Cadmium sulphide	0.1 % Weight (2)	N			EC Number: 215-147-8, CAS Number: 1306-23-6, Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	
Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	0.1 % Weight (2)	N			EC Number: 217-710-3, CAS Number: 1937-37-7, Carcinogenic (Article 57a);	
Dihexyl phthalate (DnHP)	0.1 % Weight (2)	N			EC Number: 201-559-5, CAS Number: 84-75-3, Toxic for reproduction (Article 57 c).	
Imidazolidine-2-thione: (2-imidazoline-2-thiol)	0.1 % Weight (2)	N			EC Number: 202-506-9, CAS Number: 96-45-7, Toxic for reproduction (Article 57 c).	
Triethyl phosphate	0.1 % Weight (2)	N			EC Number: 246-677-8, CAS Number: 25155-23-1, Toxic for reproduction (Article 57 c).	
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	0.1 % Weight (2)	N			EC Number: 209-358-4, CAS Number: 573-58-0, Carcinogenic (Article 57a);	
Lead di(acetate)	0.1 % Weight (2)	N			EC Number: 206-104-4, CAS Number: 301-04-2, Toxic for reproduction (Article 57 c).	
Date of inclusion to SVHC 16.6.2014						
Cadmium chloride	0.1 % Weight (2)	N			EC Number: 233-296-7, CAS Number: 10108-64-2, Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)	
Sodium peroxometaborate	0.1 % Weight (2)	N			EC Number: 231-556-4, CAS Number: 7632-04-4, Toxic for reproduction (Article 57 c).	
Sodium perborate; perboric acid, sodium salt	0.1 % Weight (2)	N			EC Number: 239-172-9; 234-390-0, Toxic for reproduction (Article 57 c).	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	0.1 % Weight (2)	N			EC Number: 271-093-5, CAS Number: 68515-50-4, Toxic for reproduction (Article 57 c).	

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Substance			If yes (Y), detailed information of contained substances		
	Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]
			Date of inclusion to SVHC 17.12.2014		
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-oxoethylthio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	0.1 % Weight (2)	N			Toxic for reproduction (Article 57 c).
Cadmium sulphate	0.1 % Weight (2)	N			EC Number: 233-331-6, CAS number: 10124-36-4 and 31119-53-6, Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Toxic for reproduction (Article 57 c), Equivalent level of concern having probable serious effects to human health (Article 57 f).
Cadmium fluoride	0.1 % Weight (2)	N			EC Number: 232-222-0, CAS number: 7790-79-6, Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Toxic for reproduction (Article 57 c), Equivalent level of concern having probable serious effects to human health (Article 57 f).
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	0.1 % Weight (2)	N			EC Number: 239-622-4, CAS number: 15571-58-1, Toxic for reproduction (Article 57 c).
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	Intentionally added or 0.1 % Weight (2)	N			EC Number: 223-346-6, CAS number: 3846-71-7, PBT (Article 57 d); vPvB (Article 57 e), Japan (Law Concerning the Examination and Regulation of Manufacture); Candidate list for European REACH Regulation No. 1907/2006/EC.
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	0.1 % Weight (2)	N			EC Number: 247-384-8, CAS number: 25973-55-1, PBT (Article 57 d); vPvB (Article 57 e)
			Date of inclusion to SVHC 15.6.2015		
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	0.1 % Weight (2)	N			vPvB (Article 57 e)
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	0.1 % Weight (2)	N			EC Numbers: 271-094-0 / 272-013-1, CAS numbers: 68515-51-5 / 68648-93-1, Toxic for reproduction (Article 57 c)
			Date of inclusion to SVHC 17.12.2015		
Perfluorononan-1-oiic-acid and its sodium and ammonium salts	0.1 % Weight (2)	N			EC Number: 206-801-3, CAS Number: 375-95-1, 21049-39-8, 4149-60-4, Toxic for reproduction (Article 57 c) PBT (Article 57 d)
Nitrobenzene	0.1 % Weight (2)	N			EC Number: 202-716-0, CAS Number: 98-95-3, Toxic for reproduction (Article 57 c)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	0.1 % Weight (2)	N			EC Number: 253-037-1, CAS Number: 36437-37-3, vPvB (Article 57 e)
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	0.1 % Weight (2)	N			EC Number: 223-383-8, CAS Number: 3864-99-1, vPvB (Article 57 e)
1,3-propanesultone	0.1 % Weight (2)	N			EC Number: 214-317-9, CAS Number: 1120-71-4, Carcinogenic (Article 57 a)
			Date of inclusion to SVHC 20.6.2016		
Benzo[def]chrysene (Benzo[a]pyrene)	0.1 % Weight (2)	N			EC Number: 200-028-5, CAS Number: 50-32-8, Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57 d) vPvB (Article 57 e).
			Date of inclusion to SVHC 12.1.2017		
4,4'-isopropylidenediphenol	0.1 % Weight (2) or Intentionally added	N			EC Number: 201-245-8, CAS Number: 80-05-7, Common synonyms: BPA, Bisphenol A. IEC 62474 (http://std.iec.ch/iec62474) threshold level: Intentionally added or 0.1 mass% of article. Toxic for reproduction (Article 57c).
4-Heptylphenol, branched and linear	0.1 % Weight (2)	N			Substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof. Equivalent level of concern having probable serious effects to environment (Article 57 f)
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	0.1 % Weight (2)	N			Nonadecafluorodecanoic acid (EC no.: 206-400-3, CAS no.: 335-76-2), Ammonium nonadecafluorodecanoate (EC no.: 221-470-5, CAS no.: 3108-42-7), Decanoic acid, nonadecafluoro-, sodium salt (CAS no.: 3830-45-3). Toxic for reproduction (Article 57c) PBT (Article 57 d).
p-(1,1-dimethylpropyl)phenol	0.1 % Weight (2)	N			EC Number: 201-280-9, CAS Number: 80-46-6, Equivalent level of concern having probable serious effects to environment (Article 57 f).
			Date of inclusion to SVHC 7.7.2017		
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	0.1 % Weight (2)	N			vPvB (Article 57e)

REVISION HISTORY:

REV:	Date:	Description:
1.4	17.3.2010	<p>A) Changes due to JIG-101 Ed 2.0: - LEVEL A and B replaced by criteria 1 – R Regulated (R), criteria 2 – A (for assessment only) and criteria 3 – I (for information only) - Minor changes: JIG Asbestos, threshold level changed from "Any content (2 and 3)" to "Intentionally added". JIG: Beryllium and Beryllium compounds, only Beryllium Oxide included. Cust.A and Cust.B requirements include all Beryllium and Beryllium compounds. JIG: Brominated flame retardants exclude Hexabromocyclododecane(HBCDD), because it is separated to SVHC list. JIG: requirement of Arsenic/Arsenic compounds covers only Diarsenic Pentaoxide and Diarsenic Trioxide JIG: Cadmium threshold level changed from 75ppm to 100ppm, 5ppm threshold level added for battery. JIG: requirements for Formaldehyde added. JIG: new requirements for Lead/lead compounds. JIG: Mercury/mercury compounds, requirement added for battery. JIG: Nickel, threshold level changed form "0.5 micrograms/sq cm/week" to "Intentionally added" JIG: Ozone Depleting Substances, threshold level changed from "Any content (2 and 3)" to " Intentionally added" JIG: requirements for PFOS added. JIG: requirements for Certain Phthalates more detailed (see Phthalates) JIG: extra requirement for Deca-BDE (see PBDE) JIG: Shortchain Chlorinated Paraffins (C10 – C13), threshold level changed from "1000 ppm or Intentionally Added (1)" to "1000 ppm (2)" JIG: Tributyl Tin Oxide (TBTO), threshold level changed from "Intentionally Added (2)" to "1000 ppm or Intentionally Added (2)" JIG: Antimony, Bismuth and Selenium requirements removed from JIG.</p> <p>- Added new substances: JIG: Fluorinated greenhouse gases JIG: Perchlorates JIG: Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1, 1-dimethylethyl) CAS# 3846-71-7 JIG: Tris (2-chloroethyl) phosphate (TCEP)</p> <p>B) Changes due list of SVHC 13.1.2010: 14 substances added (last 14 on the table) C) No changes to cust.A and cust.B requirements. D) Lead/lead compounds RoHS exemption items removed.</p>
1.5	22.3.2011	<p>A) Changes due to JIG-101: no changes. B) Changes due list of SVHC 15.12.2010: 17 substances added (last 17 on the table) C) No changes to cust.A and cust.B requirements.</p>
1.6	24.5.2011	<p>A) Changes to "Additional Material and Substance Declarations" table: Comment added for Organic tin compounds: "Including Dibutyltin compounds." New regulated substance added "Dimethyl fumarate (DMF)"</p>
1.7	8.8.2011	<p>A) Changes due to JIG-101: no changes. B) Changes due list of SVHC 20.6.2011: 7 substances added (last 7 on the table) and more details added for Cobalt Dichloride. C) No changes to cust.A and cust.B requirements.</p>
1.8	12.9.2012	<p>A) Changes due to JIG-101 Ed. 4.0 B) Changes due list of SVHC 19.12.2011 and 18.6.2012: substances added (last 20+13 = 33 on the table). C) No changes to cust.A and cust.B requirements.</p>
1.9	28.11.2013	<p>A) Changes due to JIG-101 Ed.4.1: Addresses publication of JS709 that defines "low halogen", see "Brominated Flame Retardants", "Polyvinyl Chloride (PVC) and PVC Copolymers" and "Chlorinated flame retardants". B) Changes due list of SVHC 19.12.2012: substances added (54 rows on the table), SVHC 20.6.2013 substances added (6 rows), Description of Aluminosilicate Refractory Ceramic Fibres and Zirconia Aluminosilicate Refractory Ceramic Fibres updated according to latest version. C) No changes to cust.A and cust.B requirements.</p>
2.0	15.5.2014	<p>A) Changes due to JIG-101: no changes. B) Changes due list of SVHC 16.12.2013: substances added (7 rows on the table) C) No changes to cust.A and cust.B requirements.</p>
2.1	27.11.2014	<p>A) JIG-101 Ed.4.1 is old and will be replaced by IEC 62474 (http://std.iec.ch/iec62474). Updates due to IEC 62474: - Added: Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) : 0.09 mass% total bromine content in laminate - Added: Chlorinated Flame Retardants (CFR): 0.09 mass% total chlorine content in laminate - Added: Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA - Minor change to descriptions and threshold limit of Perchlorates - Change the threshold of Lead/Lead Compounds (0.01 mass%, products designed or intended primarily for children 12). - Minor change to threshold of Mercury / Mercury compounds (Batteries): add "Intentionally added or ..." - Added: thresholds to rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact, CAS # 50-32-8, 192-97-2, 56-55-3, 218-01-9, 205-99-2, 205-82-3, 207-08-9 and 53-70-3. B) Changes due list of SVHC 16.6.2014: substances added (4 rows on the table) C) No changes to cust.A and cust.B requirements.</p>
2.2	23.3.2015	<p>A) IEC 62474 (http://std.iec.ch/iec62474). No changes. B) Changes due list of SVHC 17.12.2014: substances added (6 rows on the table), 1 updated (DEHP: Reason for inclusion updated). C) No changes to cust.A and cust.B requirements.</p>
2.3	6.8.2015	<p>A) IEC 62474 (http://std.iec.ch/iec62474), updates 8.4. and 15.7.2015: updated CAS No: 3846-71-7, Alkanes, C10-13, Hexabromocyclododecane (HBCDD), Added: CAS No: 68921-45-9 and Canadian regulation for mercury: SOR/2014-254 (0.0005 mass% of total Hg in homogenous material of battery). B) Changes due list of SVHC 15.6.2015: substances added (2 rows on the table). Added threshold level to HBCDD (IEC 62474: Intentionally added or 0.1 mass%). C) No changes to cust.A and cust.B requirements.</p>
2.4	12.1.2016	<p>A) IEC 62474 (http://std.iec.ch/iec62474), updates 2015-12-17: Hexavalent Chromium / Hexavalent Chromium Compounds, "BasicDescription" added to "Additional information..." column. Threshold levels 0.1 mass% in homogenous material – added to SVHC list for: Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Benzyl butyl phthalate (BBP), Diisobutyl phthalate (DIBP). B) Changes due list of SVHC 17.12.2015: substances added (5 rows on the table). Threshold levels for 4 materials listed in A). C) No changes to cust.A and cust.B requirements.</p>
2.5	23.8.2016	<p>A) IEC 62474 (http://std.iec.ch/iec62474), Reporting level added for: Lead 0.03 mass% of surface coating material - Cables/cords with thermoset or thermoplastic coatings. 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) Intentionally added (SVHC-list page 7). Minor additions: clarifications to some substance names. B) Changes due list of SVHC 20.6.2016: one substance added (EC Number: 200-028-5). C) No changes to cust.A and cust.B requirements.</p>
2.6	16.1.2017	<p>A) IEC 62474 (http://std.iec.ch/iec62474), 12.1.2017 added: Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (CAS No: 335-76-2, 3830-45-3 and 3108-42-7) and 4,4'-isopropylidenediphenol (CAS No: 80-05-7). All these are also added 12.1.2017 to SVHC list, so these were added only to SVHC-list. B) Changes due list of SVHC 12.1.2017: 4 substance added. C) No changes to cust.A and cust.B requirements.</p>
2.7	27.7.2017	<p>A) IEC 62474 (http://std.iec.ch/iec62474). No changes. B) Changes due list of SVHC 7.7.2017: one substance added (PFHxS). C) No changes to cust.A and cust.B requirements.</p>