

Yazaki group self-control substance List (6th Edition)

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[Classification of substances]
- Prohibited (P):
A substance designated "P" prohibited for all automotive uses in at least one region / market, or may not exceed a regulated threshold limit for all automotive uses in at least one region / market.
- Declarable (D):
A substance designated "D" must be declared if it exceeds the defined threshold limits.
- Declarable or Prohibited (D/P):
A substance designated as "D/P" has both allowed uses and prohibited uses in at least one region/ market.

No	Substance name	CAS-No.	Target item	Target use	Classification: Prohibit(P) or Declarable(D)	Threshold	Target region (Destination)	Application date	Relevant Laws
1	Lead and its compounds, all members	7439-92-1, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses except bellows	P	0.1%	All regions	Immediate	- EU ELV - EU RoHS - China ELV
				Materials and components specified in EU ELV ANNEX II	Refer Appendix.				
2	Mercury and its compounds, all members	7439-97-6, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses except bellows	P	0.1%	All regions	Immediate	- EU ELV - EU RoHS - China ELV
				Materials and components specified in EU ELV ANNEX II	Refer Appendix.				
3	Cadmium and its compounds, all	7440-43-9, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses except bellows	P	0.01%	All regions	Immediate	- EU ELV - EU RoHS - China ELV
				Materials and components specified in EU ELV ANNEX II	Refer Appendix.				
4	Chromium(VI)-salts, all members	18540-29-9, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses except bellows	P	0.1%	All regions	Immediate	- EU ELV - EU RoHS - China ELV
				Materials and components specified in EU ELV ANNEX II	Refer Appendix.				
5	Deca-BDE: Decabromodiphenyl ether	1163-19-5	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU RoHS - Stockholm Convention on Persistent Organic Pollutants
6	HBDC: Cyclododecane, hexabromo-	25637-99-4, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV) - Stockholm Convention on Persistent Organic Pollutants
7	DEHP: Di(2-ethylhexyl)phthalate	117-81-7	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (individually or in any combination of the four phthalates)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV, ANNEX XVII) - EU RoHS
8	DBP: Dibutylphthalate	84-74-2	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	(Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV, ANNEX XVII) - EU RoHS
9	BBP: Benzyl butyl phthalate	85-68-7	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P		All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV, ANNEX XVII) - EU RoHS
10	DIBP: Diisobutylphthalate	84-69-5	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P		All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV, ANNEX XVII) - EU RoHS
11	Arsenic trioxide	1327-53-3	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.01% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
12	Arsenic pentoxide	1303-28-2	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.01% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
13	Lead chromate	7758-97-6	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
14	Lead sulfochromate yellow	1344-37-2	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
15	Lead chromate molybdate sulfate red	12656-85-8	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
16	Tris(2-chloroethyl) phosphate	115-96-8	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
17	Trichloroethylene	79-01-6	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
18	Chromium trioxide	1333-82-0	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
19	Acids generated from chromium trioxide and their oligomers	13530-68-2 7738-94-5	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
20	Sodium dichromate	10588-01-9, 7789-12-0	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
21	Potassium dichromate	7778-50-9	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
22	Ammonium dichromate	7789-09-5	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
23	Potassium chromate	7789-00-6	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)

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No	Substance name	CAS-No.	Target item	Target use	Classification: Prohibit(P) or Declarable(D)	Threshold	Target region (Destination)	Application date	Relevant Laws
24	Sodium chromate	7775-11-3	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
25	Arsenic acid	7778-39-4	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.01% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
26	Dichromium tris(chromate)	24613-89-6	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
27	Strontium chromate	7789-06-2	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
28	Potassium hydroxyoctaoxidizincatedichromate	11103-86-9	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
29	Pentazinc chromate octahydroxide	49663-84-5	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
30	Diisopentylphthalate	605-50-5	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
31	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7 rich	71888-89-6	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
32	1,2-Benzenedicarboxylic acid di-C7-11-branched and linear alkyl-esters	68515-42-4	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
33	Bis(2-methoxyethyl) phthalate	117-82-8	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
34	Dipentylphthalate	131-18-0	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
35	4-(1,1,3,3-Tetramethylbutyl) phenol, ethoxylated	9036-19-5, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
36	4-Nonylphenol, branched and linear, ethoxylated	104-35-8, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
37	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
38	Pitch, coal tar, high temp.	65996-93-2	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
39	Diamino-diphenylmethane	101-77-9	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
40	2,4-Dinitrotoluene	121-14-2	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
41	Dihexyl phthalate	84-75-3	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
42	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	68515-51-5, etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
43	Trixylyl phosphate	25155-23-1	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
44	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
45	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
46	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
47	Tetraethyllead	78-00-2	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)

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48	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
49	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List, ANNEX XIV)
50	Dechlorane Plus	13560-89-9 etc. (According to GADSL)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.0001% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List) - Stockholm Convention on Persistent Organic Pollutants
51	Alkanes, C14-17, chloro	85535-85-9 etc. (carbon chain lengths within the range from C14 to C17)	all automotive products delivered to customer and all items to compose the products (or attached on the products)	All uses	P	0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)	All regions	Immediate	- EU REACH (Candidate List) - Stockholm Convention on Persistent Organic Pollutants

No	Substance name	Materials and components		Classification: Prohibit(P) or Declarable(D)	Threshold	Target region (Destination)	Application date
1	Lead and its compounds, all members	1(a)	Steel for machining purposes and batch hot dip galvanised steel components containing up to 0,35 % lead by weight	D/P	0.1 %	All regions	Immediate
		1(b)	Continuously galvanised steel sheet containing up to 0,35 % lead by weight	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2016 and spare parts for these vehicles is exempted.)
		2(a)	Aluminium for machining purposes with a lead content up to 2 % by weight	D/P	0.1 %	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2005 is exempted.)
		2(b)	Aluminium with a lead content up to 1,5 % by weight	D/P	0.1 %	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2008 is exempted.)
		2(c)(i)	Aluminium alloys for machining purposes with a lead content up to 0,4 % by weight	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2028 and spare parts for these vehicles is exempted.)
		2(c)(ii)	Aluminium alloys not included in entry 2(c)(i) with a lead content up to 0.4 % by weight	D/P	0.1 %	All regions	Immediate
		3	Copper alloy containing up to 4 % lead by weight	D/P	0.1 %	All regions	Immediate
		4(a)	Bearing shells and bushes	D/P	0.1 %	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2008 is exempted.)
		4(b)	Bearing shells and bushes in engines, transmissions and air conditioning compressors	D/P	0.1 %	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2011 is exempted.)
		5(a)	Lead in batteries in high-voltage systems that are used only for propulsion in M1 and N1 vehicles	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2019 and spare parts for these vehicles is exempted.)
		5(b)(i)	Lead in batteries: (1) used in 12 V applications (2) used in 24 V applications in special purpose vehicles as defined in Article 3 of Regulation (EU) 2018/858 of the European Parliament and of the Council	D/P	0.1 %	All regions	Immediate
		5(b)(ii)	Lead in batteries used in applications not included in entry 5(a) or entry 5(b)(i)	D/P	0.1 %	全地域	Immediate (Vehicles type-approved before 1 January 2024 and spare parts for these vehicles is exempted.)
		6	Vibration dampers	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2016 and spare parts for these vehicles is exempted.)
		7(a)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings	D/P	0.1 %	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2005 is exempted.)
		7(b)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings containing up to 0,5 % lead by weight	D/P	0.1 %	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2006 is exempted.)
		7(c)	Bonding agents for elastomers in powertrain applications containing up to 0,5 % lead by weight	D/P	0.1 %	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2009 is exempted.)
		8(a)	Lead in solders to attach electrical and electronic components to electronic circuit boards and lead in finishes on terminations of components other than electrolyte aluminium capacitors, on component pins and on electronic circuit boards	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		8(b)	Lead in solders in electrical applications other than soldering on electronic circuit boards or on glass	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		8(c)	Lead in finishes on terminals of electrolyte aluminium capacitors	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		8(d)	Lead used in soldering on glass in mass airflow sensors	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		8(e)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	D/P	0.1 %	All regions	Immediate
		8(f)(a)	Lead in compliant pin connector systems	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
8(f)(b)	Lead in compliant pin connector systems other than the mating area of vehicle harness connectors	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)		
8(g)(i)	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)		
8(g)(ii)	Lead in solders to complete a viable electrical connection between the semiconductor die and the carrier within integrated circuit flip chip packages where that electrical connection consists of any of the following: (i) a semiconductor technology node of 90 nm or larger; (ii) a single die of 300 mm ₂ or larger in any semiconductor technology node; (iii) stacked die packages with dies of 300 mm ₂ or larger, or silicon interposers of 300 mm ₂ or larger.	D/P	0.1 %	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)		

[Appendix] Yazaki group self-control substance List EU ELV Directive ANNEX II

Following list shows control standard as Yazaki group regarding the materials and components specified by EU ELV Directive ANNEX II.

No	Substance name	Materials and components		Classification: Prohibit(P) or Declarable(D)	Threshold	Target region (Destination)	Application date
		8(h)	Lead in solder to attach heat spreaders to the heat sink in power semiconductor assemblies with a chip size of at least 1 cm2 of projection area and a nominal current density of at least 1 A/mm2 of silicon chip area	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		8(i)	Lead in solders in electrical glazing applications on glass except for soldering in laminated glazing	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		8(j)	Lead in solders for soldering of laminated glazing	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		8(k)	Soldering of heating applications with 0,5A or more of heat current per related solder joint to single panes of laminated glazings not exceeding wall thickness of 2,1 mm. This exemption does not cover soldering to contacts embedded in the intermediate polymer	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 January 2011 and spare parts for these vehicles is exempted.)
		9	Valve seats	D/P	0.1%	All regions	Immediate (Valve seats for engines, developed before 1 July 2003 and to be used as spare parts is exempted.)
		10(a)	Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in: — glass in bulbs and glaze of spark plugs, — dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d).	D/P	0.1%	All regions	Immediate
		10(b)	Lead in PZT-based dielectric ceramic materials of capacitors being part of integrated circuits or discrete semiconductors	D/P	0.1%	All regions	Immediate
		10(c)	Lead in dielectric ceramic materials of capacitors with a rated voltage of less than 125 V AC or 250 V DC	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 January 2016 and spare parts for these vehicles is exempted.)
		10(d)	Lead in the dielectric ceramic materials of capacitors compensating the temperature-related deviations of sensors in ultrasonic sonar systems	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 January 2017 and spare parts for these vehicles is exempted.)
		11	Pyrotechnic initiators	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 July 2006 and spare parts for these vehicles is exempted.)
		12	Lead-containing thermoelectric materials in automotive electrical applications to reduce CO2 emissions by recuperation of exhaust heat	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 January 2019 and spare parts for these vehicles is exempted.)
2	Mercury and its compounds, all members	15(a)	Discharge lamps for headlight application	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 July 2012 and spare parts for these vehicles is exempted.)
		15(b)	Fluorescent tubes used in instrument panel displays	D/P	0.1%	All regions	Immediate (Vehicles type-approved before 1 July 2012 and spare parts for these vehicles is exempted.)
3	Cadmium and its compounds, all members	16	Batteries for electrical vehicles	D/P	0.01%	All regions	Immediate (Used as spare parts for vehicles put on the market before 31 December 2008 is exempted.)
4	Chromium(VI)-salts, all members	13(a)	Corrosion preventive coatings	D/P	0.1%	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2007 is exempted.)
		13(b)	Corrosion preventive coatings related to bolt and nut assemblies for chassis applications	D/P	0.1%	All regions	Immediate (Used as spare parts for vehicles put on the market before 1 July 2008 is exempted.)
		14	Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution: (i) designed to operate fully or partly with electrical heater, having an average utilised electrical power input <75W at constant running conditions; (ii) designed to operate fully or partly with electrical heater, having an average utilised electrical power input ≥ 75W at constant running conditions; (iii) designed to fully operate with non-electrical heater.	D/P	0.1%	All regions	Immediate

Revised date	Edition	Revised content	Reason for revision
October 19th, 2018	1st edition	New enactment	—
March 29th, 2019	2nd edition	Changed the Threshold of No. 16 to "0.1% (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)"	To correct errors.
		Added No. 39 and 40.	To prohibit the substances subject to authorization in EU REACH regulations.
August 21st, 2020	3rd edition	Changed the Threshold of No. 7 to 10 to "0.1% (individually or in any combination of the four phthalates) (Regardless of the threshold, the substance shall be prohibited if it is used intentionally.)"	In accordance with the revision of EU REACH Regulation ANNEX XVII.
		Added No. 41 to 46.	To prohibit the substances subject to authorization in EU REACH regulations.
		Divided the Appendix 8(g) into 8(g)(i) and 8(g)(ii), added Appendix 8(k), and changed the name of materials and components and classification of Appendix 14.	In accordance with the revision of EU ELV Directive ANNEX II.
June 1st, 2022	4th edition	Added No. 47 and 48.	To prohibit the substances subject to authorization in EU REACH regulations.
Jun 1st, 2023	5th edition	Added No. 49.	To prohibit the substances subject to authorization in EU REACH regulations.
		Added No. 50.	In accordance with the revision of ANNEX A of the Stockholm Convention on Persistent Organic Pollutants.
		Changed the application date Appendix 2(c)(i)., divided the Appendix 5(b) into 5(b)(i) and 5(b)(ii).	In accordance with the revision of EU ELV Directive ANNEX II.
September 21st, 2025	6th edition	Added No.51.	In accordance with the revision trend of POPs Convention (Stockholm Convention on Persistent Organic Pollutants) ANNEX A.