

Schedule. 1 REACH Candidate List of Substances of Very High Concern for Authorisation

AT level / P: Prohibit, C: Control

(Related standard: AT Group Environmental Quality Standards for Products Ed.10.0 ATQA02A0001j)

No.	AT level	Substance name		CAS No.	Example of use	Date of inclusion	EC No.	
R001		Anthracene		120-12-7	Dye, Catalyzer	2008/10/28	204-371-1	
R002		4,4'-Diaminodiphenylmethane	MDA	101-77-9	Epoxy resin hardener		202-974-4	
R003	P	Dibutyl phthalate	DBP	84-74-2	Plasticizer		201-557-4	
R004	P	Cobalt dichloride		7646-79-9	Desiccant, Lubricant		231-589-4	
R005		Diarsenic pentaoxide		1303-28-2	Glass		215-116-9	
R006		Diarsenic trioxide		1327-53-3	Glass		215-481-4	
R007	P	Sodium dichromate		10588-01-9 7789-12-0	Pigment, Dye		234-190-3	
R008		5- <i>tert</i> -butyl-2,4,6-trinitro- <i>m</i> -xylene [musk xylene]		81-15-2	Fragrance		201-329-4	
R009	P	Bis(2-ethylhexyl) phthalate	DEHP	117-81-7	Plasticizer		204-211-0	
R010	P	Hexabromocyclododecane and all major diastereoisomers identified	HBCDD	3194-55-6 25637-99-4	Flame retardant		247-148-4 221-695-9	
R011	P	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	SCCP	85535-84-8	Lubricant, Flame retardant, Plasticizer		287-476-5	
R012	P	Bis(tributyltin) oxide	TBTO	56-35-9	Fungicide		200-268-0	
R013	P	Lead hydrogen arsenate		7784-40-9	Wood preservative		232-064-2	
R014	P	Benzyl butyl phthalate	BBP	85-68-7	Plasticizer		201-622-7	
R015		Triethyl arsenate		15606-95-8	Semiconductor		427-700-2	
R016		Anthracene oil		90640-80-5	Carbon black	2010/1/13	292-602-7	
R017		Anthracene oil, anthracene paste, distn. lights		91995-17-4	Carbon black		295-278-5	
R018		Anthracene oil, anthracene paste, anthracene fraction		91995-15-2	Carbon black		295-275-9	
R019		Anthracene oil, anthracene-low		90640-82-7	Carbon black		292-604-8	
R020		Anthracene oil, anthracene paste		90640-81-6	Carbon black		292-603-2	
R021		Pitch, coal tar, high temp.		65996-93-2	Technical electrode		266-028-2	
R022		2,4-Dinitrotoluene		121-14-2	Fungicide, Synthetic intermediate		204-450-0	
R023	P	Diisobutyl phthalate	DIBP	84-69-5	Plasticizer		201-553-2	
R024	P	Lead chromate		7758-97-6	Pigment, Paint		231-846-0	
R025	P	Lead chromate molybdate sulphate red [C.I. Pigment Red 104]		12656-85-8	Pigment, Paint		235-759-9	
R026	P	Lead sulfochromate yellow [C.I. Pigment Yellow 34]		1344-37-2	Pigment, Paint		215-693-7	
R027	P	Tris(2-chloroethyl)phosphate	TCEP	115-96-8	Flame retardant, Plasticizer	204-118-5		
R028		Acrylamide		79-06-1	Adhesive, Paper strength enhancer	201-173-7		
R029		Trichloroethylene		79-01-6	Cleaning, Degreasing	2010/6/18	201-167-4	
R030		Boric acid		10043-35-3 11113-50-1	Flame retardant, Paint, Fireproofing agent, Antiseptic		233-139-2 234-343-4	
R031		Disodium tetraborate, anhydrous		1330-43-4 12179-04-3 1303-96-4	Flame retardant, Adhesive		215-540-4	
R032		Tetraboron disodium heptaoxide, hydrate		12267-73-1	Flame retardant, Adhesive		235-541-3	
R033	P	Sodium chromate		7775-11-3	Chromium compounds production		231-889-5	
R034	P	Potassium chromate		7789-00-6	Pigment, Ink		232-140-5	
R035	P	Ammonium dichromate		7789-09-5	CRT production		232-143-1	
R036	P	Potassium dichromate		7778-50-9	photolithography		231-906-6	
R037		Cobalt(II) sulphate		10124-43-3	Manufacture of other chemical		2010/12/15	233-334-2
R038		Cobalt(II) dinitrate		10141-05-6	Manufacture of other chemical			233-402-1
R039		Cobalt(II) carbonate		513-79-1	Manufacture of catalyst			208-169-4
R040		Cobalt(II) diacetate		71-48-7	Manufacture of catalyst	200-755-8		
R041		2-Methoxyethanol	EGME	109-86-4	Chemical intermediate, Solvent	203-713-7		
R042		2-Ethoxyethanol	EGEE	110-80-5	Chemical intermediate, Solvent	203-804-1		
R043	P	Chromium trioxide		1333-82-0	Metal finishing, Wood preservative	215-607-8		
R044	P	Acids generated from chromium trioxide and their oligomers • Chromic acid • Dichromic acid • Oligomers of chromic acid and dichromic acid		7738-94-5 13530-68-2 -	Metal finishing, Wood preservative	231-801-5 236-881-5 -		
R045		2-ethoxyethyl acetate		111-15-9	Solvent, Paint	2011/6/2	203-839-2	
R046	P	Strontium chromate		7789-06-2	Coating, Paint		232-142-6	
R047		1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	DHNUP	68515-42-4	Plasticizer		271-084-6	
R048		Hydrazine		302-01-2 7803-57-8	Rocket fuel, Reducing agent		206-114-9	
R049		1-methyl-2-pyrrolidone		872-50-4	Coating, Paint		212-828-1	
R050		1,2,3-trichloropropane		96-18-4	Solvent, Paint	202-486-1		

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R051		1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	DIHP	71888-89-6	Plasticizer		276-158-1
R052	P	Dichromium tris(chromate)		24613-89-6	Metal surface treatment	2011/12/19	246-356-2
R053	P	Potassium hydroxyoctaoxodizincatedichromate		11103-86-9	Coating		234-329-8
R054	P	Pentazinc chromate octahydroxide		49663-84-5	Coating		256-418-0
R055		Aluminosilicate Refractory Ceramic Fibres	RCF	-	High-temperature insulation		-
R056		Zirconia Aluminosilicate Refractory Ceramic Fibres	Zr-RCF	-	High-temperature insulation		-
R057		Formaldehyde, oligomeric reaction products with aniline (technical MDA)		25214-70-4	Synthetic intermediate, Hardener		500-036-1
R058		Bis(2-methoxyethyl) phthalate	DMEP	117-82-8	Plasticiser		204-212-6
R059		2-methoxyaniline [<i>o</i> -anisidine]		90-04-0	Dye intermediate		201-963-1
R060		4-(1,1,3,3-tetramethylbutyl)phenol [<i>4-tert</i> -octylphenol]		140-66-9	Phenolic resin raw material, Surfactant		205-426-2
R061		1,2-dichloroethane		107-06-2	Synthetic raw material, Solvent		203-458-1
R062		Bis(2-methoxyethyl) ether		111-96-6	Reaction solvent, Battery electrolyte		203-924-4
R063		Arsenic acid		7778-39-4	Fining agent, Manufacture of semiconductor		231-901-9
R064		Calcium arsenate		7778-44-1	Precipitant in metal smelting		231-904-5
R065	P	Trilead diarsenate		3687-31-8	Refinement raw material	222-979-5	
R066		<i>N,N</i> -dimethylacetamide	DMAC	127-19-5	Solvent, Industrial coating, Insulation paper, Polyimide film	204-826-4	
R067		2,2'-dichloro-4,4'-methylenedianiline	MOCA	101-14-4	Resin curing agent	202-918-9	
R068		Phenolphthalein		77-09-8	Indicator	201-004-7	
R069	P	Lead diazide [Lead azide]		13424-46-9	Detonator	236-542-1	
R070	P	Lead styphnate		15245-44-0	Primer, Detonator	239-290-0	
R071	P	Lead dipicrate		6477-64-1	Detonator	229-335-2	
R072		1,2-bis(2-methoxyethoxy)ethane [triglyme]	TEGDME	112-49-2	Solvent, Manufacture of chemicals	2012/6/18	203-977-3
R073		1,2-dimethoxyethane [ethylene glycol dimethyl ether]	EGDME	110-71-4	Solvent, Manufacture of chemicals		203-794-9
R074		Diboron trioxide		1303-86-2	Adhesive, Ink, Paint		215-125-8
R075		Formamide		75-12-7	Intermediate in the manufacture of chemicals		200-842-0
R076	P	Lead(II) bis(methanesulfonate)		17570-76-2	Plating process for electronic components		401-750-5
R077		1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1 <i>H</i> ,3 <i>H</i> ,5 <i>H</i>)-trione	TGIC	2451-62-9	Hardener in resins and coatings		219-514-3
R078		1,3,5-tris[(2 <i>S</i> and 2 <i>R</i>)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1 <i>H</i> ,3 <i>H</i> ,5 <i>H</i>)-trione	β-TGIC	59653-74-6	Electrical insulation material (silk screen printing, coating, adhesive)		423-400-0
R079		4,4'-bis(dimethylamino)benzophenone [Michler's ketone]		90-94-8	Intermediate in the manufacture of triphenylmethane dyes and other substances		202-027-5
R080		<i>N,N,N',N'</i> -tetramethyl-4,4'-methylenedianiline [Michler's base]		101-61-1	Intermediate in the manufacture of dyes and other substances		202-959-2
R081		[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride [C.I. Basic Blue 26]		2580-56-5	Ink, Coating, Colouring of paper and packaging, textiles, plastic products		219-943-6
R082		[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride [C.I. Basic Violet 3]		548-62-9	Paper colouring, Ink cartridge for printer		208-953-6
R083		4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol		561-41-1	Writing ink, Dye		209-218-2
R084		α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol [C.I. Solvent Blue 4]		6786-83-0	Printing and writing ink, Dye		229-851-8
R085	P	Bis(pentabromophenyl) ether [Decabromodiphenyl ether]	DecaBDE	1163-19-5	Flame retardant	2012/12/19	214-604-9
R086	P	Pentacosafuorotridecanoic acid	PFTTrDA	72629-94-8	Surfactant		276-745-2
R087	P	Tricosafuorododecanoic acid	PFDODA	307-55-1	Surfactant		206-203-2
R088	P	Henicosafuoroundecanoic acid	PFUnDA	2058-94-8	Surfactant		218-165-4
R089	P	Heptacosafuorotetradecanoic acid	PFTeDA	376-06-7	Surfactant		206-803-4
R090		Diazene-1,2-dicarboxamide [C,C'-azodi(formamide)]		123-77-3	Foaming agent for rubber and synthetic resin		204-650-8
R091		Cyclohexane-1,2-dicarboxylic anhydride [Hexahydrophthalic anhydride] (including isomers)	HHPA	85-42-7 13149-00-3 14166-21-3	Epoxy resin hardener		201-604-9 236-086-3 238-009-9
R092		Hexahydromethylphthalic anhydride [Methylhexahydrophthalic anhydride] (including isomers)	MHHPA	25550-51-0 19438-60-9 48122-14-1 57110-29-9	Epoxy resin hardener		247-094-1 243-072-0 256-356-4 260-566-1
R093		4-Nonylphenol, branched and linear		-	Surfactant raw material Binder for ink		-
R094		4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (including polymers and homologues)		-	Surfactant		-
R095		Methoxyacetic acid		625-45-6	Catalyst		210-894-6

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R096		<i>N,N</i> -dimethylformamide	DMF	68-12-2	Solvent for synthesis	200-679-5
R097	P	Dibutyltin dichloride	DBTC	683-18-1	Stabilizer for resin, Curing catalyst	211-670-0
R098	P	Lead monoxide [Lead oxide]		1317-36-8	Raw material of glass and stabilizer	215-267-0
R099	P	Orange lead [Lead tetroxide]		1314-41-6	Glass raw material, Pigment	215-235-6
R100	P	Lead bis(tetrafluoroborate)		13814-96-5	Electrolyte for plating	237-486-0
R101	P	Trilead bis(carbonate)dihydroxide		1319-46-6	Pigment, Ceramic raw material	215-290-6
R102	P	Lead titanium trioxide		12060-00-3	Ceramic raw material	235-038-9
R103	P	Lead titanium zirconium oxide		12626-81-2	Ceramic raw material	235-727-4
R104	P	Silicic acid, lead salt		11120-22-2	Glass raw material	234-363-3
R105	P	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped		68784-75-8	Lamp phosphor material	272-271-5
R106		1-bromopropane [<i>n</i> -propyl bromide]		106-94-5	Cleaning solvent	203-445-0
R107		Methyloxirane [Propylene oxide]		75-56-9	Resin raw material	200-879-2
R108		1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	DPP,DIPP	84777-06-0	Plasticizer	284-032-2
R109		Diisopentylphthalate	DIPP	605-50-5	Plasticizer	210-088-4
R110		<i>N</i> -pentyl-isopentylphthalate	PIPP	776297-69-9	Plasticizer	-
R111		1,2-diethoxyethane	EGDEE	629-14-1	Solvent, Solvent for synthesis	211-076-1
R112	P	Acetic acid, lead salt, basic		51404-69-4	Manufacture of chemicals, Intermediate	257-175-3
R113	P	Lead oxide sulfate		12036-76-9	Stabilizer for resin	234-853-7
R114	P	[Phthalato(2-)]dioxotrilead		69011-06-9	Stabilizer for resin	273-688-5
R115	P	Dioxobis(stearato)trilead		12578-12-0	Stabilizer for resin	235-702-8
R116	P	Fatty acids, C16-18, lead salts		91031-62-8	Stabilizer for resin	292-966-7
R117	P	Lead cyanamide		20837-86-9	Anticorrosive paint	244-073-9
R118	P	Lead dinitrate		10099-74-8	Synthetic raw material	233-245-9
R119	P	Pentalead tetraoxide sulphate		12065-90-6	Stabilizer for resin, Lead battery	235-067-7
R120	P	Pyrochlore, antimony lead yellow [C.I. Pigment Yellow 41]		8012-00-8	Pigment	232-382-1
R121	P	Sulfurous acid, lead salt, dibasic		62229-08-7	Stabilizer for resin	263-467-1
R122	P	Tetraethyllead		78-00-2	Antiknocking agent	201-075-4
R123	P	Tetralead trioxide sulphate		12202-17-4	Stabilizer for resin	235-380-9
R124	P	Trilead dioxide phosphonate		12141-20-7	Stabilizer for resin	235-252-2
R125		Furan		110-00-9	Synthetic raw material, Solvent	203-727-3
R126		Diethyl sulphate		64-67-5	Synthetic raw material	200-589-6
R127		Dimethyl sulphate		77-78-1	Synthetic raw material	201-058-1
R128		3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		143860-04-2	Moisture scavenging agent	421-150-7
R129		Dinoseb [6-sec-butyl-2,4-dinitrophenol]		88-85-7	Fungicide	201-861-7
R130		4,4'-methylenedi- <i>o</i> -toluidine [4,4'-Diamino-3,3'-dimethyldiphenylmethane]		838-88-0	Epoxy resin hardener, Urethane resin hardener	212-658-8
R131		4,4'-oxydianiline and its salts		101-80-4	Resin raw material	202-977-0
R132		4-aminoazobenzene [C.I. Solvent Yellow 1]		60-09-3	Dye intermediate	200-453-6
R133		4-methyl- <i>m</i> -phenylenediamine [Toluene-2,4-diamine]		95-80-7	Resin raw material, Dye intermediate	202-453-1
R134		6-methoxy- <i>m</i> -toluidine [<i>p</i> -cresidine]		120-71-8	Dye intermediate	204-419-1
R135		Biphenyl-4-ylamine		92-67-1	Dye intermediate	202-177-1
R136		<i>o</i> -aminoazotoluene [C.I. Solvent Yellow 3]		97-56-3	Dye intermediate	202-591-2
R137		<i>o</i> -toluidine		95-53-4	Dye raw material, Resin curing agent	202-429-0
R138		<i>N</i> -methylacetamide		79-16-3	Manufacture of chemicals	201-182-6
R139	P	Cadmium		7440-43-9	Battery, Pigment, Coating	2013/6/2
R140	P	Cadmium oxide		1306-19-0	Battery, Coating, Alloy	215-146-2
R141		Ammonium pentadecafluorooctanoate	APFO	3825-26-1	Surfactant, Resin additive	223-320-4
R142	P	Pentadecafluorooctanoic acid	PFOA	335-67-1	Surfactant, Resin additive	206-397-9
R143		Dipentyl phthalate	DPP	131-18-0	Plasticizer	205-017-9
R144		4-Nonylphenol, branched and linear, ethoxylated		-	Surfactant, Paint	-
R145	P	Cadmium sulphide		1306-23-6	Pigment	2013/12/16
R146	P	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) [C.I. Direct Red 28]		573-58-0	Azo dye	209-358-4
R147	P	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]		1937-37-7	Azo dye	217-710-3
R148	C	Di- <i>n</i> -Hexyl Phthalate	DnHP	84-75-3	Plasticizer	201-559-5
R149		Imidazolidine-2-thione; 2-imidazoline-2-thiol		96-45-7	Vulcanizing accelerator	202-506-9
R150	P	Lead di(acetate)		301-04-2	Pigment, Dye, Paint	206-104-4
R151		Trixylyl phosphate		25155-23-1	Flame retardant, Plasticizer	246-677-8

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R152	P	Cadmium chloride		10108-64-2	Pigment, Stabilizer, Plating	2014/6/16	233-296-7
R153		1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	DHXP, DIHXP	68515-50-4	Plasticizer		271-093-5
R154		Sodium peroxometaborate		7632-04-4	Oxidation bleach, Dyeing aid		231-556-4
R155		Sodium perborate; perboric acid, sodium salt		-	Oxidation bleach, Dyeing aid		239-172-9 234-390-0
R156	P	Cadmium fluoride		7790-79-6	Alloy, Glass		2014/12/17
R157	P	Cadmium sulphate		10124-36-4 31119-53-6	Plating, Battery		233-331-6
R158	P	2-benzotriazol-2-yl-4,6-di- <i>tert</i> -butylphenol	UV-320	3846-71-7	UV absorber		223-346-6
R159	P	2-(2 <i>H</i> -benzotriazol-2-yl)-4,6-ditertpentylphenol	UV-328	25973-55-1	UV absorber		247-384-8
R160	P	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	DOTE	15571-58-1	Heat stabilizer for PVC		239-622-4
R161	P	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DO TE and MO TE)		-	Heat stabilizer for PVC		-
R162		1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;		68515-51-5	Plasticizer	2015/6/15	271-094-0
		1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	DDP DHXP DOP	68648-93-1			272-013-1
R163		5- <i>sec</i> -butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5- <i>sec</i> -butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]		-	Perfume		-
R164		Nitrobenzene		98-95-3	Synthetic intermediate of dye and perfume	2015/12/17	202-716-0
R165		2,4-di- <i>tert</i> -butyl-6-(5-chlorobenzotriazol-2-yl)phenol	UV-327	3864-99-1	UV absorber		223-383-8
R166		2-(2 <i>H</i> -benzotriazol-2-yl)-4-(<i>tert</i> -butyl)-6-(<i>sec</i> -butyl)phenol	UV-350	36437-37-3	UV absorber		253-037-1
R167		1,3-propanesultone		1120-71-4	Electrolyte of the lithium ion battery		214-317-9
R168	P	Perfluorononane-1-oic-acid and its sodium and ammonium salts	PFNA PFN-S PFN-A	375-95-1 21049-39-8 4149-60-4	Processing aid for fluoropolymer manufacture, Textile antifouling finishing agent		206-801-3 - -
R169	P	Benzo[def]chrysene [Benzo[a]pyrene]		50-32-8	Impurities in softening oil used for rubber and plastic, Unintentional substances generated in the manufacturing process of carbon black	2016/6/2	200-028-5
R170	C	4,4'-isopropylidenediphenol [Bisphenol A]	BPA	80-05-7	Manufacture of polycarbonate, epoxy resins, Antioxidant for processing PVC	2017/1/12	201-245-8
R171	P	Nonadecafluorodecanoic acid and its sodium and ammonium salts	PFDA PFD-S PFD-A	335-76-2 3830-45-3 3108-42-7	Plasticiser, Lubricant, Surfactant, Wetting agent, Corrosion inhibitor		206-400-3 221-470-5 -
R172		<i>p</i> -(1,1-dimethylpropyl)phenol		80-46-6	Intermediate raw material of phenolic resin, Printing ink, Paint		201-280-9
R173		4-Heptylphenol, branched and linear		-	Lubricant additive		-
R174		Perfluorohexane-1-sulphonic acid and its salts	PFHxS -	355-46-4 -	Plasticiser, Lubricant, Surfactant, Wetting agent, Corrosion inhibitor		2017/7/7
R175	P	Chrysene		218-01-9	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.	2018/1/15	205-923-4
R176	P	Benz[a]anthracene	BaA	56-55-3	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.		200-280-6
R177	P	Cadmium nitrate		10325-94-7	Used in laboratory chemicals and for the manufacture of glass, porcelain and ceramic products.		233-710-6
R178	P	Cadmium hydroxide		21041-95-2	Used in laboratory chemicals and for the manufacture of electrical, electronic and optical equipment.		244-168-5
R179	P	Cadmium carbonate		513-78-0	Used as a pH regulator and in water treatment products, laboratory chemicals, cosmetics and personal care products.		208-168-9

No.	AT level	Substance name	CAS No.	Example of use	Date of inclusion	EC No.	
R180	C	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	Used as a non-plasticising flame retardant, used in adhesives and sealants and in binding agents.		-	
R181		Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	-	Used as a lubricant additive in lubricants and greases.		-	
R182		Octamethylcyclotetrasiloxane (D4)	556-67-2	Used in washing and cleaning products, polishes and waxes and cosmetics and personal care products.	2018/6/27	209-136-7	
R183		Decamethylcyclopentasiloxane (D5)	541-02-6	Used in washing and cleaning products, polishes and waxes, cosmetics and personal care products, textile treatment products and dyes.		208-764-9	
R184		Dodecamethylcyclohexasiloxane (D6)	540-97-6	Used in washing and cleaning products, polishes and waxes, cosmetics and personal care products.		208-762-8	
R185	P	Lead	7439-92-1	Used in metals, welding and soldering products, metal surface treatment products, and polymers.		231-100-4	
R186		Disodium octaborate	12008-41-2	Used in anti-freeze products, heat transfer fluids, lubricants and greases, and washing and cleaning products.		234-541-0	
R187		Benzo[ghi]perylene	191-24-2	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.		205-883-8	
R188		Terphenyl hydrogenated	61788-32-7	Used as a plastic additive, solvent, in coatings/inks, in adhesives and sealants, and heat transfer fluids.	262-967-7		
R189		Ethylenediamine	EDA	107-15-3	Used in adhesives and sealants, coating products, fillers, putties, plasters, modelling clay, pH regulators and water treatment products.	203-468-6	
R190		Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (Trimellitic anhydride)	TMA	552-30-7	Used in the manufacture of esters and polymers.	209-008-0	
R191		Dicyclohexyl phthalate	DCHP	84-61-7	Used in plastisol, PVC, rubber and plastic articles. A further use is also as a phlegmatizer and dispersing agent for formulations of organic peroxides.	201-545-9	
R192		2,2-bis(4'-hydroxyphenyl)-4-methylpentane		6807-17-6	Epoxy resin raw material	2019/1/15	401-720-1
R193	P	Benzo[k]fluoranthene	BkFA	207-08-9	Softening oil and Pigment used for rubber and plastic	205-916-6	
R194		Fluoranthene		206-44-0	Softening oil and Pigment used for rubber and plastic	205-912-4	
R195		Phenanthrene		85-01-8	Dye	201-581-5	
R196		Pyrene		129-00-0	Tar product raw materials, Anticorrosive paint, Waterproofing painting and Electrode bond	204-927-3	
R197		1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)		15087-24-8	Cosmetics and Suntan lotion agent	239-139-9	
R198		2-methoxyethyl acetate		110-49-6	Solvent of the paint (Cellosolve type solvent)	2019/7/16	203-772-9
R199		Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)		-	Polymeric heat stabilizers, Antioxidant of the hot melt adhesive	-	
R200		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)		-	Fluorine-based surfactant	-	
R201		4-tert-butylphenol		98-54-4	Ultraviolet absorber, Raw materials of the alkyl phenols resin	202-679-0	

No.	AT level	Substance name		CAS No.	Example of use	Date of inclusion	EC No.	
R202		Diisohexyl phthalate		71850-09-4	Plasticiser	2020/1/16	276-090-2	
R203		2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone		119313-12-1	Photopolymerization initiator		404-360-3	
R204		2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one		71868-10-5	Photopolymerization initiator		400-600-6	
R205		Perfluorobutane sulfonic acid (PFBS) and its salts		-	Fluorine-based surfactant		-	
R206		1-vinylimidazole		1072-63-5	In formulations and as a monomer in the production of polymers	2020/6/25	214-012-0	
R207		2-methylimidazole		693-98-1	As a catalyst in the production of coating products		211-765-7	
R208	P	Dibutylbis(pentane-2,4-dionato-O,O')tin		22673-19-4	As a catalyst and as an additive in the production of plastics		245-152-0	
R209		Butyl 4-hydroxybenzoate (Butylparaben)		94-26-8	Cosmetics, personal care products and pharmaceuticals		202-318-7	
R210		Bis(2-(2-methoxyethoxy)ethyl) ether		143-24-8	Solvent / Extracting agent	2021/1/19	205-594-7	
R211		Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety		-	Additive agent in the production of plastic and rubber tires		-	
R212		2-(4- <i>tert</i> -butylbenzyl)propionaldehyde and its individual stereoisomers		-	Cleaning agents, in scented articles, polishes and wax blends.		2021/7/8	-
R213		Orthoboric acid, sodium salt		13840-56-7	May be used as solvent and corrosion inhibitor.			237-560-2
R214		2,2-bis(bromomethyl)propane 1,3-diol ;	BMP	3296-90-0	Manufacture of polymer resins and in one component foam (OCPF) application.	221-967-7		
		2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol ;	TBNPA	36483-57-5 1522-92-5	Polymer production manufacture of plastics products.	253-057-0		
		2,3-dibromo-1-propanol	2,3-DBPA	96-13-9	—	202-480-9		
R215		Glutaral		111-30-8	Biocides and leather tanning.	2022/1/17	203-856-5	
R216	C	Medium-chain chlorinated paraffins [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	MCCP	-	Flame retardants, plasticising additives in plastics, sealants, rubber and textiles.		-	
R217		Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof	PDDP	-	Preparation of lubricant additive materials and of fuel system cleaners.		-	
R218		1,4-dioxane		123-91-1	Solvent		204-661-8	
R219		4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)		77-40-7	May be used in manufacture of phenolic and polycarbonate resin.	2023/1/17	201-025-1	
R220		6,6'-di- <i>tert</i> -butyl-2,2'-methylenedi-p-cresol	DBMC	119-47-1	Rubbers, lubricants, adhesives, inks, fuels		204-327-1	
R221		tris(2-methoxyethoxy)vinylsilane		1067-53-4	Rubbers, plastics, sealants		213-934-0	
R222		(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof	4-MBC	-	Cosmetics		-	
R223		S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate		255881-94-8	Lubricants, greases	2022/6/10	401-850-9	
R224		N-(hydroxymethyl)acrylamide		924-42-5	Paints, coatings and adhesives		213-103-2	
R225		1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]		37853-59-1	Flame retardant		2023/1/17	253-692-3
R226	C	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol ; (tetrabromobisphenol-A; TBBPA)	TBBPA	79-94-7	The substance is used as a reactive flame retardant and as an additive flame retardant in the manufacture of polymer resins, in products such as epoxy coated circuit boards, printed circuit boards, paper and textiles.			201-236-9
R227		4,4'-sulphonyldiphenol ; (bisphenol S; BPS)	BPS	80-09-1	The substance is used for the manufacture of pulp, paper and paper products, textile, leather or fur, and chemicals. Use as monomer for manufacture of PESU.	201-250-5		
R228		Barium diboron tetraoxide		13701-59-2	Paints and coatings		237-222-4	

No.	AT level	Substance name	CAS No.	Example of use	Date of inclusion	EC No.
R229		Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	The substance is used as a flame retardant and as a plasticiser for flexible polyvinylchloride and for use in wire and cable insulation, film and sheeting, coated fabrics and adhesives.		-
R230		Isobutyl 4-hydroxybenzoate	4247-02-3	The substance is used in coating products, fillers, putties, plasters, inks and toners.		224-208-8
R231		Melamine	108-78-1	The substance is used in polymers and resins, coating products, adhesives and sealants and leather treatment products.		203-615-4
R232		Perfluoroheptanoic acid and its salts	-	Water repellent and antifouling agent		-
R233		Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	The substance is used in formulation or re-packing.		473-390-7
R234		Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Inks and toners, coating products, photo-chemicals, polymers, adhesives and sealants and fillers, putties, plasters.	2023/6/14	278-355-8
R235		Bis(4-chlorophenyl) sulphone	80-07-9	Manufacture of chemicals, plastic products and rubber products.		201-247-9
R236		2,4,6-tri- <i>tert</i> -butylphenol	732-26-3	Manufacture of another substance; formulation of mixtures and in fuel products.	2024/1/23	211-989-5
R237		2-(2 <i>H</i> -benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	UV-329 3147-75-9	Coating products, adhesives and sealants, lubricants and greases, polishes and waxes and washing and cleaning products.		221-573-5
R238		2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Inks and toners, coating products.		438-340-0
R239		Bumetizole	UV-326 3896-11-5	Coating products, adhesives and sealants and washing and cleaning products.		223-445-4
R240		Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	Adhesives and sealants, coating products, fillers, putties, plasters, inks and toners and polymers.		700-960-7
R241		Bis(α,α -dimethylbenzyl) peroxide	80-43-3	Intermediates/reactive components/processing aids for polymerization processing in the production of resins, rubbers and polymers.	2024/6/27	201-279-3
R242		Triphenyl Phosphate	115-86-6	Used as a flame retardant and plasticiser in polymer formulations, adhesives and sealants.	2024/11/7	204-112-2

※ For the latest information for SVHC and each chemical substance, please refer the following ECHA websight.

→ <https://echa.europa.eu/web/guest/candidate-list-table>