

**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.8.0 ATQA02A0001i)

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 -		

No.	AT level	Substance name		CAS No.	Example of use	Date of inclusion	EC No.	
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	
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 hydroxyoctaoxidizincatedichromate		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 [4- <i>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-(1H,3H,5H)-trione	TGIC	2451-62-9	Hardener in resins and coatings		219-514-3	
R078		1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-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		

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R085	P	Bis(pentabromophenyl) ether [Decabromodiphenyl ether]	DecaBDE	1163-19-5	Flame retardant	2012/12/19	214-604-9
R086		Pentacosfluorotridecanoic acid		72629-94-8	Surfactant		276-745-2
R087		Tricosfluorododecanoic acid		307-55-1	Surfactant		206-203-2
R088		Henicosfluoroundecanoic acid		2058-94-8	Surfactant		218-165-4
R089		Heptacosfluorotetradecanoic acid		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
R096		N,N-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 <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), 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		N-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 cyanamate		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		N-methylacetamide		79-16-3	Manufacture of chemicals		201-182-6

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R139	P	Cadmium		7440-43-9	Battery, Pigment, Coating	2013/6/2	231-152-8	
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	215-147-8	
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-n-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	
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		232-222-0
R157	P	Cadmium sulphate		10124-36-4 31119-53-6	Plating, Battery		233-331-6	
R158	P	2-benzotriazol-2-yl-4,6-di-tert-butylphenol	UV-320	3846-71-7	UV absorber		223-346-6	
R159		2-(2H-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 DOITE and MOTE)		-	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-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 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-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	UV-327	3864-99-1	UV absorber		223-383-8	
R166		2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-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		Perfluorononan-1-oiic-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		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		p-(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	206-587-1 -

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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
R180		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"™) [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 ≥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	

No.	AT level	Substance name	CAS No.	Example of use	Date of inclusion	EC No.
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
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
R207		2-methylimidazole	693-98-1	As a catalyst in the production of coating products	211-765-7	
R208		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		-

No.	AT level	Substance name		CAS No.	Example of use	Date of inclusion	EC No.
R212		2-(4-tert-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)propane1,3-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	—		
R215		Glutaral		111-30-8	Biocides and leather tanning.		203-856-5
R216		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.	201-025-1	

※ 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>