

Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
<b>4,4'-isopropylidenediphenol (bisphenol A)</b>	201-245-8	80-05-7	30/01/2017	<b>Toxic for reproduction (Article 57 c)</b>	–As anti-oxidant for processing –PVC In epoxy resin hardeners, epoxy adhesives and encapsulants – For manufacturing thermal paper, polycarbonate, epoxy resins, coating materials	Possible
<b>4-Heptylphenol, branched and linear [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]</b>	—	—	30/01/2017	<b>Equivalent level of concern having probable serious effects to human health (Article 57f)</b>	As a polymer intermediate	Possible
<b>Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts</b>	– 206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3	30/01/2017	<b>Toxic for reproduction (Article 57 c); PBT (Article 57 d)</b>	–As water, oil and soil repellent in textiles, leather and paper – As stain and grease-proof coatings on food packaging, furniture upholstery and carpet – As a component of fire-fighting foam –In nanosprays and impregnation sprays	None
<b>p-(1,1-dimethylpropyl)phenol</b>	201-280-9	80-46-6	30/01/2017	<b>Equivalent level of concern having probable serious effects to human health (Article 57f)</b>	–In the production of phenolic resins, ethoxylated resins and lacquers – As a germicide in cleaning solutions –In adhesive, sealants, coatings and paints, thinners and paint removes – Disulfide derivative as vulcanizing agent for the curing of rubber	Possible
<b>Benzo[def]chrysene (Benzo[a]pyrene)</b>	200-028-5	50-32-8	01/06/2016	<b>CMR, PBT, vPvB</b>	contaminant upon production of plastic, rubber, coatings and it is particularly found in extender oils and carbon black.	Possible
<b>1,3-propanesultone</b>	214-317-9	1120-71-4	02/09/2015	<b>Carcinogenic (Article 57a)</b>	Batteries; Photography	Possible
<b>2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)</b>	223-383-8	3864-99-1	02/09/2015	<b>vPvB (Article 57e) Very Persistent, Very Bioaccumulative</b>	Automotive; Personal care; Adhesives / sealants; Paints / varnishes / coatings; Pharmaceuticals	Possible
<b>2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)</b>	253-037-1	36437-37-3	02/09/2015	<b>vPvB (Article 57e) Very Persistent, Very Bioaccumulative</b>	Epoxy; Plastic; Polyvinyl chloride (PVC); Polyurethane (PU); Acrylonitrile butadiene styrene (ABS); Polycarbonate (PC); Rubber	Possible
<b>Nitrobenzene</b>	202-716-0	98-95-3	02/09/2015	<b>Toxic for reproduction (Article 57 c)</b>	Biocide / antiseptic; Additive; Solvent / cleaner / degreaser	None
<b>Perfluorononan-1-oic acid and its sodium and ammonium salts</b>	206-801-3	375-95-1 21049-39-8 4149-60-4	02/09/2015	<b>Toxic for reproduction (Article 57 c); PBT (Article 57 d)</b>	Lubricants; Cleaning	None
<b>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)</b>	271-094-0 272-013-1	68515-51-5 68648-93-1	15/06/2015	<b>Toxic for reproduction (Article 57 c)</b>	Plasticiser, used in adhesives, lubricants, coatings, cable compounding, polymer foils, PVC compounds, semiconductors, and rubber articles	<b>HIGH</b>
<b>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]</b>	-	-	15/06/2015	<b>vPvB (Article 57e) Very Persistent, Very Bioaccumulative</b>	Information on uses is confidential and therefore it cannot be provided.	Possible
<b>2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328); Tinuvin 328</b>	247-384-8	25973-55-1	17/12/2014	<b>PBT (Article 57d); vPvB (Article 57e)</b>	Automotive; Batteries; Adhesives/sealants; Paints / varnishes / coatings; Pharmaceuticals	Possible

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<b>2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)</b>	223-346-6	3846-71-7	17/12/2014	<b>PBT (Article 57d); vPvB (Article 57e)</b>	Automotive; Batteries; Adhesives / sealants; Paints / varnishes / coatings; Pharmaceuticals; Personal care	Possible
<b>2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; Dioctyltin bis(2-ethylhexyl mercaptoacetate) (DOTE)</b>	239-622-4	15571-58-1	17/12/2014	<b>Toxic for reproduction (Article 57c)</b>	Used as a heat stabiliser for PVC processing	Possible
<b>Cadmium fluoride</b>	232-222-0	7790-79-6	17/12/2014	<b>Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57c)</b>	Lubricants	None
<b>Cadmium sulphate</b>	233-331-6	10124-36-4; 31119-53-6	17/12/2014	<b>Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57c)</b>	Electronics; Batteries; Paints / varnishes / coatings; Lubricants	Possible
<b>Reaction mass of DOTE and MOTE; 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</b>	239-622-4; 248-227-6	15571-58-1; 27107-89-7	17/12/2014	<b>Toxic for reproduction (Article 57c)</b>	Heat stabiliser for PVC	Possible
<b>1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear</b>	271-093-5	68515-50-4	16/06/2014	<b>Toxic for reproduction (Article 57c)</b>	Lubricant in steering fluid, plasticiser, component in engine oil stabiliser, used in sealants/jointing agents	None
<b>Sodium perborate; Perboric acid (H3BO2(O2)), monosodium salt trihydrate / Perboric acid, sodium salt</b>	239-172-9 234-390-0	15120-21-5; 13517-20-9; 10332-33-9; 11138-47-9; 37244-98-7; 12040-72-1	16/06/2014	<b>Toxic for reproduction (Article 57c)</b>	Antiseptic, bleaching agent in laundry detergents and machine dishwashing products, used in germicides, denture cleaners, mouthwashes, deodorants, toothpastes, electroplating agents, cold wave preparations, vat dyes, cleaning products, tooth bleaching formulas, and to bleach straw, ivory, sponges, bristles, waxes, textiles, and other fibres	None
<b>Sodium peroxometaborate; Perboric acid (HBO(O2)), sodium salt, tetrahydrate; Perboric acid (HBO(O2)), sodium salt, monohydrate</b>	231-556-4	7632-04-4; 10486-00-7; 10332-33-9	16/06/2014	<b>Toxic for reproduction (Article 57c)</b>	Biocide / antiseptic	None

Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
<b>Cadmium chloride</b>	233-296-7	10108-64-2	16/06/2014	<b>Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57f)</b>	Stabiliser in plastics (PVC), mordant, bleacher, intermediate, lubricant, pesticide, laboratory reagent, used in photography, textile dyeing, fungicides, pyrotechnics, electroplating, electrogalvanising, tinning solution, batteries, photocopying, calico printing, semiconductors, and the manufacture of other cadmium compounds, mirrors, and solar cells	High
<b>Cadmium Sulphide</b>	215-147-8	1306-23-6	16/12/2013	<b>Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)</b>	Plastic, rubber, paper, glass, ceramic glazes, textiles	Possible
<b>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)</b>	217-710-3	1937-37-7	16/12/2013	<b>Carcinogenic (Article 57a);</b>	Dye for cellulose, wool, silk, bast, hog's hair, leather, plastics, vegetable-ivory buttons, and wood flour used as a resin filler, used to produce aqueous inks, used to stain wool, silk, acetate, nylon, wood, and biological materials	Low
<b>Dihexyl phthalate</b>	201-559-5	84-75-3	16/12/2013	<b>Toxic for reproduction (Article 57 c);</b>	Plasticiser for cellulose and vinyl plastics, used in making of plastisols subsequently used in the manufacture of automobile parts (air filters, battery covers) and dip-moulded products (tool handles, dishwasher baskets)	Low
<b>Imidazolidine-2-thione; (2-imidazoline-2-thiol)</b>	202-506-9	96-45-7	16/12/2013	<b>Toxic for reproduction (Article 57 c);</b>	Insecticide, fungicide, accelerator for vulcanising polychloroprene (neoprene) and polyacrylate rubbers, intermediate in antioxidant production, in dyes, pharmaceuticals, synthetic resins, and in the manufacture of ethylenebisdithiocarbamate pesticides (eg. amobam, mancozeb, metiram, nabam, and zineb), used in electroplating baths	None
<b>Trixylyl phosphate</b>	246-677-8	25155-23-1	16/12/2013	<b>Toxic for reproduction (Article 57 c);</b>	Flame retardant in the production of plastics, plasticiser, hydraulic fluid, lubricant, lubricant additive	Low
<b>Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)</b>	209-358-4	573-58-0	16/12/2013	<b>Carcinogenic (Article 57a);</b>	Dye, pigment, pH indicator, gelling agent for poly vinyl alcohol, used for biological staining	None
<b>Lead di(acetate)</b>	206-104-4	301-04-2	16/12/2013	<b>Toxic for reproduction (Article 57 c);</b>	Mordant, water repellent, processing agent, drying agent, antifouling, pigment, mordant, fixating agent, laboratory reagent, intermediate	None
<b>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]</b>	-	-	20/06/2013	<b>Serious effects to the environment</b>	Textile production, detergents, printed papers (especially glossy printing from outside Europe), found in some oil additives	None
<b>Dipentyl phthalate (DPP); Di-n-pentyl phthalate (DnPP)</b>	205-017-9	131-18-0	20/06/2013	<b>Toxic for reproduction (Article 57c)</b>	Plasticiser PVC	Possible

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<b>Pentadecafluorooctanoic acid; Perfluorooctanoic acid (PFOA)</b>	206-397-9	335-67-1	20/06/2013	<b>Toxic for reproduction (Article 57c)</b>	Primarily used to produce its salts, coatings on paper and textiles (eg. food packaging), non-stick coatings on cookware, fire-fighting applications, cosmetics, greases and lubricants, paints, polishes and adhesives	Low
<b>Ammonium pentadecafluorooctanoate (APFO); Ammonium salt of PFOA</b>	223-320-4	3825-26-1	20/06/2013	<b>Toxic for reproduction (Article 57c)</b>	Coatings on paper and textiles (eg. food packaging), non-stick coatings on cookware	Low
<b>Cadmium Oxide</b>	215-146-2	1306-19-0	20/06/2013	<b>Carcinogenic</b>	Silver-zinc storage batteries, semiconductors, manufacture of silver alloys, cadmium electroplating, ceramic glazes	None (RoHS)
<b>Cadmium (Cd)</b>	231-152-8	7440-43-9	20/06/2013	<b>Carcinogenic (article 57a)</b>	Electronics, photography, lithography, batteries, metal coating, optics	None (RoHS)
<b>Pyrochlore, antimony lead yellow</b>	232-382-1	8012-00-8	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Manufacture of pyrochlore, coatings and paints, thinners, paint removers, ink and toners	Low
<b>6-methoxy-m-toluidine (p-cresidine)</b>	204-419-1	120-71-8	19/12/2012	<b>Carcinogenic (Article 57a)</b>	Production of dyes	Low
<b>Henicosfluoroundecanoic acid</b>	218-165-4	2058-94-8	19/12/2012	<b>vPvB (Article 57 e)</b>	Water and oil/grease repellant, surfactant Leather, fabric	None
<b>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]</b>	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	19/12/2012	<b>Equivalent level of concern having probable serious effects to human health (Article 57 f)</b>	Chemical intermediate, hardener in epoxy resins, laboratory reagent Manufacture of alkyds, plasticisers, insect repellents and rust inhibitors	Possible
<b>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]</b>	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	19/12/2012	<b>Equivalent level of concern having probable serious effects to human health (Article 57 f)</b>	Chemical intermediate, hardener in epoxy resins Manufacture of alkyds, plasticisers, insect repellents and rust inhibitors	Possible
<b>Dibutyltin dichloride (DBTC)</b>	211-670-0	683-18-1	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Organotin intermediate, stabiliser for polyvinyl chloride, esterification catalyst for the manufacture of organic esters used in plasticisers, lubricants and heat-transfer fluids PVC	Possible
<b>Lead bis(tetrafluoroborate)</b>	237-486-0	13814-96-5	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Electroplating solution for coating metal objects with lead, curing agent for epoxy resins, catalyst in production of linear polyesters Electroplating, metal finishing	None (RoHS)
<b>Lead dinitrate</b>	233-245-9	10099-74-8	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Mordant in dyeing and printing on textiles, oxidiser in dye industry, sensitiser in photography, heat stabiliser in nylon and polyesters, esterification catalyst for polyesters, rodenticide, flotation agent in titanium removal from clays Pyrotechnics and explosives, tanning, lithography, textile printing, photography, formerly a major component of lead paints	None (RoHS)
<b>Silicic acid, lead salt</b>	234-363-3	11120-22-2	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Stone, plaster, cement, glass and ceramic articles Processing operations with minerals/metals at elevated temperature	None
<b>4-Aminoazobenzene</b>	200-453-6	60-09-3	19/12/2012	<b>Carcinogenic (Article 57a)</b>	Dye for lacquers, varnishes, wax products, oil stains and styrene resins, intermediate in the manufacture of acid yellow, diazo dyes and indulines Coating applications	Low

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Lead titanium zirconium oxide	235-727-4	12626-81-2	19/12/2012	Toxic for reproduction (Article 57 c)	Chemical intermediate Manufacture electro-ceramic components	None (RoHS)
Lead monoxide (lead oxide)	215-267-0	1317-36-8	19/12/2012	Toxic for reproduction (Article 57 c)	vulcanising agent in rubber and plastics, high temperature lubricant, neutralising agent in organic synthesis, intermediate in the manufacture of pigments Battery sector (lead-acid batteries, storage batteries, backup power for uninterruptible power supply, UPS), conversion of lead ores, vulcanisation of rubber, production of certain pigments and paints, glazing pottery, glass flux for painting on porcelain and glass, varnishes, production of capacitors, electrophotographic plates, transducers, and ferrimagnetic and ferromagnetic materials	None (RoHS)
o-Toluidine	202-429-0	95-53-4	19/12/2012	Carcinogenic (Article 57a)	Chemical intermediate for dyes, antioxidant in rubber manufacture, lab reagent in glucose analysis Textile printing, manufacture of dyes, rubber vulcanising chemicals, pharmaceuticals and pesticides	Low
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19/12/2012	Toxic for reproduction (Article 57 c)	Dye, water scavenger, reactive diluent Polyurethane finishings and sealants	Low
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine [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]	272-271-5	68784-75-8	19/12/2012	Toxic for reproduction (Article 57 c)	Dye, water scavenger, reactive diluent Polyurethane finishings and sealants	Low
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	19/12/2012	Toxic for reproduction (Article 57 c)	Catalyst in the preparation of polyesters from terephthalic acid and diols, ceramic glaze component, curing agent for peroxides to form improved polyethylene wire insulation, pearlescent pigment, colour-changing component of temperature-sensitive inks, red-reflecting pigment in iridescent plastic sheets, smudge-resistant film on electrically sensitive recording sheets, lubricating grease component, component of ultraviolet light reflective paints to increase solar reflectivity, improved cool gun-propellant stabiliser which decomposes and forms a lubricating lead deposit, heat stabiliser for PVC polymers, component of weighted nylon-reinforced fish nets made from PVC fibres Cement, inks and paints	None (RoHS)
Furan	203-727-3	110-00-9	19/12/2012	Carcinogenic (Article 57a)	Used in the production of production of agricultural chemicals (insecticides), stabilisers and pharmaceuticals Intermediate, solvent for resins	None
N,N-dimethylformamide	200-679-5	68-12-2	19/12/2012	Toxic for reproduction (Article 57 c)	Solvent, quencher & cleaner, catalyst in organic chemistry High voltage capacitors, industrial paint stripping applications	Possible
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	19/12/2012	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	Emulsifier for emulsion polymerisation, emulsifier in finishing agents for covering leather and textiles with a thin polymer film for improved surface properties, intermediate for production of octylphenol ether sulphates	None

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<b>4,4'-methylenedi-o-toluidine</b>	212-658-8	838-88-0	19/12/2012	Carcinogenic (Article 57a)	No information	
<b>Diethyl sulphate</b>	200-589-6	64-67-5	19/12/2012	Carcinogenic (Article 57a); Mutagenic (Article 57b)	Intermediate in dye manufacture, ethylating agent in pigment production, finishing agent in textile manufacture, dye-set agent in carbonless paper, laboratory reagent Agricultural chemicals, in household products, in the pharmaceutical and cosmetic industries	None
<b>Dimethyl sulphate</b>	201-058-1	77-78-1	19/12/2012	Carcinogenic (Article 57a)	Methylating agent in industrial chemical synthesis, alkylating agent in the preparation of a wide variety of intermediates and products, solvent Dyes, agricultural chemicals, drugs	None
<b>Lead oxide sulfate</b>	234-853-7	12036-76-9	19/12/2012	Toxic for reproduction (Article 57 c)	PVC processing, stabiliser production, lead-stabilised plastic materials as an internal structural component of buildings	None (RoHS)
<b>Lead titanium trioxide</b>	235-038-9	12060-00-3	19/12/2012	Toxic for reproduction (Article 57 c)	Manufacture of semiconductors, computers, electronic and optical products, electrical equipment	None (RoHS)
<b>Acetic acid, lead salt, basic</b>	257-175-3	51404-69-4	19/12/2012	Toxic for reproduction (Article 57 c)	Intermediate, laboratory reagent Coatings and paints, thinners, paint removers, manufacture of fine chemicals, manufacture of computers, electronic and optical products, electrical equipment	None (RoHS)
<b>[Phthalato(2-)]dioxotrilead</b>	273-688-5	69011-06-9	19/12/2012	Toxic for reproduction (Article 57 c)	PVC processing, stabiliser production, lead-stabilised plastic materials as an internal structural component of buildings	None (RoHS)
<b>Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)</b>	214-604-9	1163-19-5	19/12/2012	PBT (Article 57 d); vPvB (Article 57 e)	High impact polystyrene (HIP), glass reinforced thermoplastic polyester and moulding resins, low density polyethylene extrusion coatings, polypropylene (homo- and copolymers), acrylonitrile butadiene styrene (ABS), rubber, nylon, polyvinyl chloride (PVC), textiles Manufacture of printed circuit boards, home electronics coatings (e.g. television cabinets), office electronics including mobile telephone equipment, adhesives, plastics and textile industries (flame retardant in latex-based back coatings), outdoor fabric upholstery, cables and insulation materials	None (RoHS)
<b>N-methylacetamide</b>	201-182-6	79-16-3	19/12/2012	Toxic for reproduction (Article 57 c)	Solvent Electrochemistry	None
<b>Dinoseb (6-sec-butyl-2,4-dinitrophenol)</b>	201-861-7	88-85-7	19/12/2012	Toxic for reproduction (Article 57 c)	Insecticide, herbicide, miticide Phenols & phenolates	None
<b>1,2-Diethoxyethane</b>	211-076-1	629-14-1	19/12/2012	Toxic for reproduction (Article 57 c)	Solvent, inert reaction medium Resins, detergents	Low
<b>Tetralead trioxide sulphate</b>	235-380-9	12202-17-4	19/12/2012	Toxic for reproduction (Article 57 c)	Key intermediate in lead-acid battery production Lead-acid batteries, PVC processing, stabiliser production, lead-stabilised plastic materials as an internal structural component of buildings	None (RoHS)
<b>N-pentyl-isopentylphthalate</b>	-	776297-69-9	19/12/2012	Toxic for reproduction (Article 57 c)	Plasticiser PVC	Possible
<b>Dioxobis(stearato)trilead</b>	235-702-8	12578-12-0	19/12/2012	Toxic for reproduction (Article 57 c)	PVC processing, stabiliser production, lead-stabilised plastic materials as an internal structural component of buildings	None (RoHS)

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<b>Tetraethyllead</b>	201-075-4	78-00-2	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Antiknock agent in leaded gasoline, chemical intermediate	None (RoHS)
<b>Pentalead tetraoxide sulphate</b>	235-067-7	12065-90-6	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Key intermediate in lead-acid battery production Lead-acid batteries, PVC processing, stabiliser production, lead-stabilised plastic materials as an internal structural component of buildings	None (RoHS)
<b>Pentacosfluorotridecanoic acid</b>	276-745-2	72629-94-8	19/12/2012	<b>vPvB (Article 57 e)</b>	Water and oil/grease repellent, surfactant Leather, fabric	None (RoHS)
<b>Tricosfluorododecanoic acid</b>	206-203-2	307-55-1	19/12/2012	<b>vPvB (Article 57 e)</b>	Water and oil/grease repellent, surfactant Leather, fabric	None
<b>Heptacosfluorotetradecanoic acid</b>	206-803-4	376-06-7	19/12/2012	<b>vPvB (Article 57 e)</b>	Water and oil/grease repellent, surfactant Leather, fabric	None
<b>1-bromopropane (n-propyl bromide)</b>	203-445-0	106-94-5	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Solvent for industrial cleaning, intermediate in the synthesis of pharmaceuticals, insecticides, quarternary ammonium compounds, flavours and fragrances Adhesive and coatings applications, aerosol propellant applications	Low
<b>Methoxyacetic acid</b>	210-894-6	625-45-6	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Inhibition of sarcosine dehydrogenase (mitochondrial enzyme that catalyses the chemical reaction N-demethylation of sarcosine to give glycine)	None
<b>4-methyl-m-phenylenediamine (toluene-2,4-diamine)</b>	202-453-1	95-80-7	19/12/2012	<b>Carcinogenic (Article 57a)</b>	Chemical intermediate Production of dyes and polyurethanes	Low
<b>o-aminoazotoluene</b>	202-591-2	97-56-3	19/12/2012	<b>Carcinogenic (Article 57a)</b>	Dye for colouring oils, fats and waxes; chemical intermediate for the dyes Solvent Red 24, Acid Red 115 Manufacture of dyes, medicine	None
<b>1,2-Benzenedicarboxylic acid, dipentylester, branched and linear</b>	284-032-2	84777-06-0	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b> <b>Carcinogenic (Article 57a)</b>	Plasticiser PVC	Possible
<b>4,4'-oxydianiline and its salts</b>	202-977-0	101-80-4	19/12/2012	<b>Carcinogenic (Article 57a); Mutagenic (Article 57b)</b>	Chemical intermediate for polyimide and poly(ester-imide) resins	Possible
<b>Orange lead (lead tetroxide)</b>	215-235-6	1314-41-6	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Used in the manufacture of plasters and ointments, colourless glass, glaze for faience, flux for porcelain painting, protective paint for iron and steel, oil-colour for ship paints, varnishes, colouring rubber, cement for glass, gas and steam pipes, battery sector (lead-acid batteries, storage batteries, backup power for uninterruptible power supply, UPS), pencils for writing on glass, lead peroxide matches	None (RoHS)
<b>Biphenyl-4-ylamine</b>	202-177-1	92-67-1	19/12/2012	<b>Carcinogenic (Article 57a)</b>	Chemical intermediate for dyes, research chemical As a carcinogen in cancer research	None
<b>Diisopentylphthalate</b>	210-088-4	605-50-5	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	Plasticiser PVC	Possible
<b>Fatty acids, C16-18, lead salts</b>	292-966-7	91031-62-8	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	PVC processing, stabiliser production, lead-stabilised plastic materials as an internal structural component of buildings	None (RoHS)
<b>Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))</b>	204-650-8	123-77-3	19/12/2012	<b>Equivalent level of concern having probable serious effects to human health (Article 57 f)</b>	Foaming agent for plastics, blowing agent for synthetic and natural rubber Plastics, PVC compounds and thermoplastic urethane elastomers, rubber	Possible
<b>Sulfurous acid, lead salt, dibasic</b>	263-467-1	62229-08-7	19/12/2012	<b>Toxic for reproduction (Article 57 c)</b>	PVC processing, stabiliser production, lead-stabilised plastic materials as an internal structural component of buildings	None (RoHS)

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Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
Lead cyanamidate	244-073-9	20837-86-9	19/12/2012	Toxic for reproduction (Article 57 c)		None (RoHS)
<b><i>α,α-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)]</i></b>	229-851-8	6786-83-0	18/06/2012	Carcinogenic (Article 57a)	Inks (for printing and writing) and dyes, dyeing a variety of materials (such as paper), fuel, fertilisers, cosmetic products, diagnostic, analytical and R&D applications, in mixtures such as windscreen washing agents	Low
<b><i>N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)</i></b>	202-959-2	101-61-1	18/06/2012	Carcinogenic (Article 57a)	Chemical intermediate in the manufacture of dyes and pigments, chemical intermediate in the manufacture of its hydrochloric salt, chemical reagent in Research & Development Dyes and pigments	Low
<b><i>1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)</i></b>	423-400-0	59653-74-6	18/06/2012	Mutagenic (Article 57b)	Hardener in resins and coatings, stabiliser for plastics Weather-resistant powder coatings for steel garden furniture, car parts, metal fencing, window and door frames, electrical equipment, refrigerators, washing machines and ovens; inks in the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials	Possible
Diboron trioxide	215-125-8	1303-86-2	18/06/2012	Toxic for reproduction (Article 57 c)	Pesticide, wood preservative, fire resistant additive for paints and electronics, used in glass production (Borosilicate and crystal glass) Glass and glass fibres, frits, ceramics, flame retardants, fireproof cement, catalysts, industrial fluids, metallurgy, adhesives, inks, paints, lacquers and varnishes, film developers solutions, detergents and cleaners, biocides and insecticides	Possible
<b><i>1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)</i></b>	203-977-3	112-49-2	18/06/2012	Toxic for reproduction (Article 57 c)	Solvent, paint and adhesive remover, processing aid in the manufacture and formulation of industrial chemicals, component of brake fluids and hydraulic fluids Adhesives, paint/graffiti remover formulations and delacquers, printing inks, brake fluids and repair of motor vehicles, processing aid in the manufacture and formulation of industrial chemicals	None
<b><i>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)]</i></b>	209-218-2	561-41-1	18/06/2012	Carcinogenic (Article 57a)	Dye, R&D, anti-allergen, bactericide Inks and dyes (production of stamping inks, hectographic inks and inking ribbons), dyeing a variety of materials (such as paper, wood and plastic), dyeing of oil and fat products (including soaps), fertilisers, diagnostic, analytical and R&D applications	None
<b><i>Lead(II) bis(methanesulfonate)</i></b>	401-750-5	17570-76-2	18/06/2012	Toxic for reproduction (Article 57 c)	Intermediate, mainly used in plating (both electrolytic and electroless) processes for electronic components (such as printed circuit boards) Electronics, electric plating, used for batteries in special applications	None (RoHS)
<b><i>Formamide</i></b>	200-842-0	75-12-7	18/06/2012	Toxic for reproduction (Article 57 c)	Intermediate in paper finishing, solvent in the production of synthetic leather and inks, softener for paper, laboratory chemical, plasticiser Agrochemical and pharmaceutical industries, animal glues, water soluble glues, inks	None
<b><i>[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)]</i></b>	208-953-6	548-62-9	18/06/2012	Carcinogenic (Article 57a)	Dye in ink applied in cartridges for printers and in ball pens and as dyestuff for paper colouring, carbon papers, textiles, staining of dried flowers/plants, marker for increasing the visibility of liquids, staining in microbial and clinical laboratories	None



Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
<b>1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)</b>	203-794-9	110-71-4	18/06/2012	<b>Toxic for reproduction (Article 57 c)</b>	Viscosity decreasing agent, solvent, solubiliser, paint remover, cleaning agent, stabiliser, anti-oxidant, electrolyte in batteries, processing aid in the manufacture and formulation of industrial chemicals Electrolyte solvent in lithium batteries, electronics, processing aid in the manufacture and formulation of industrial chemicals	Possible
<b>[4-[[4-anilino-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)]</b>	219-943-6	2580-56-5	18/06/2012	<b>Carcinogenic (Article 57a)</b>	Inks, dyes, paints and pigments, dyeing a variety of materials (such as paper, plastic, wood and textiles), cosmetic products, diagnostic, analytical and R&D applications (such as biological stain), cleaning (printing plate cleaner and water tank cleaner, for use in the lithographic printing industry), coating applications	None
<b>1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)</b>	219-514-3	2451-62-9	18/06/2012	<b>Mutagenic (Article 57b)</b>	Weather-resistant powder coatings for steel garden furniture, car parts, metal fencing, window and door frames, electrical equipment, refrigerators, washing machines and ovens; inks in the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials	Possible
<b>4,4'-bis(dimethylamino)benzophenone (Michler's ketone)</b>	202-027-5	90-94-8	18/06/2012	<b>Carcinogenic (Article 57a)</b>	Intermediate in the manufacture of triphenylmethane dyes and pharmaceuticals, additive (photosensitiser) in dyes and pigments, light absorbent, process chemical in the production of electronic circuitboards Dyes, pharmaceuticals, electronic circuit boards, photoresistant formulations	Possible
<b>4-(1,1,3,3-tetramethylbutyl)phenol</b>	205-426-2	140-66-9	19/12/2011	<b>Equivalent level of concern having probable serious effects to the environment (article 57 f)</b>	Intermediate for the production of phenolic resins and octylphenol ethoxylates, monomer for polymer preparations, component in coatings, printing inks and some sorts of paints, tackifier in the production of rubber products Electrical insulating varnishes, printing inks, water-based paints, adhesives	Possible
<b>N,N-dimethylacetamide</b>	204-826-4	127-19-5	19/12/2011	<b>Toxic for reproduction (article 57 c)</b>	Solvent for plastics, resins, gums, and electrolytes; catalyst; paint remover; high-purity solvent for crystallisation and purification Used as solvent, mainly in the manufacture of various substances and in the production of fibres for clothing and other applications. Also used as reagent, and in products such as industrial coatings, polyimide films, paint strippers and ink removers	Low
<b>Phenolphthalein</b>	201-004-7	77-09-8	19/12/2011	<b>Carcinogenic (article 57 a)</b>	Acid base indicator, analytical reagent Mainly used as laboratory agent (in pH indicator solutions), for the production of pH-indicator paper and in medicinal products	None
<b>Lead diazide, Lead azide</b>	236-542-1	13424-46-9	19/12/2011	<b>Toxic for reproduction (article 57 c),</b>	Explosive initiator/booster Pyrotechnic devices	None (RoHS)
<b>Lead dipicrate</b>	229-335-2	6477-64-1	19/12/2011	<b>Toxic for reproduction (article 57 c)</b>	Explosive	None (RoHS)
<b>1,2-dichloroethane</b>	203-458-1	107-06-2	19/12/2011	<b>Carcinogenic (article 57 a)</b>	Intermediate (in the production of vinyl chloride monomer for polyvinyl chloride production), solvent Mainly used for manufacture of other substances. Minor uses as solvent in the chemical and pharmaceutical industry.	Low
<b>Calcium arsenate</b>	231-904-5	7778-44-1	19/12/2011	<b>Carcinogenic (article 57 a)</b>	Precipitating agent in copper smelting, herbicide, insecticide Mainly used as precipitating agent in copper smelting and to manufacture diarsenic trioxide. Previously commonly used as a herbicide	None

Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
Dichromium tris(chromate)	246-356-2	24613-89-6	19/12/2011	Carcinogenic (article 57 a)	Corrosion inhibitor, catalyst in the mordanting of yarns, laboratory reagent (minor use) Mainly used in mixtures for metal surface treatment in the aeronautic/aerospace, steel and aluminium coating sectors	None (RoHS)
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	19/12/2011	Carcinogenic (article 57 a)	Intermediate in the manufacturing of dyes, pharmaceuticals and fragrances Dyes, pharmaceuticals and fragrances	None
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19/12/2011	Carcinogenic (article 57 a)	Corrosion inhibitor Mainly used in anti-corrosions paints and coatings in the vehicle coating and aeronautic / aerospace sectors	None (RoHS)
Arsenic acid	231-901-9	7778-39-4	19/12/2011	Carcinogenic (article 57 a)	Dessication of cotton, intermediate for wood preservative formulations, fining agent in glass manufacture, pesticide Mainly used to remove gas bubbles from ceramic glass melt and in the production of laminated printed circuit boards	Possible
Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	19/12/2011	Carcinogenic (article 57 a)	Corrosion inhibitor in priming paints for metals, laboratory use (analysis and R&D) Mainly used in coatings in the aeronautic/aerospace, steel and aluminium coil coating and vehicle coating sectors	None (RoHS)
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19/12/2011	Carcinogenic (article 57 a)	Intermediate for the production of MDI, hardener for epoxy resins Mainly used for manufacture of other substances. Minor uses are as hardener for epoxy resins, e.g. for the production of rolls, pipes and moulds, and as well for adhesives.	Possible
Lead styphnate	239-290-0	15245-44-0	19/12/2011	Toxic for reproduction (article 57 c)	Explosive primer for small calibre and rifle ammunition	None (RoHS)
Trilead diarsenate	222-979-5	3687-31-8	19/12/2011	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	Herbicide, insecticide	None (RoHS)
<i>Zirconia 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, 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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight</i>			19/12/2011	Carcinogenic (article 57 a)	High temperature insulation (for industrial furnaces, pipes, ducts, and cables), fire protection (for buildings and industrial equipment) , automotive (catalytic converters, metal reinforcements, heat shields, brake pads, and air bags), aircraft/aerospace (heat shields)	None
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19/12/2011	Toxic for reproduction (article 57 c)	Plasticiser, solvent Adhesives, paints, lacquers, varnishes	Possible

Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
<i>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 two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or</i>			2011-12-19		High temperature insulation (for industrial furnaces, pipes, ducts, and cables), fire protection (for buildings and industrial equipment) , automotive (catalytic converters, metal reinforcements, heat shields, brake pads, and air bags), aircraft/aerospace (heat shields)	None
<b>Bis(2-methoxyethyl) ether</b>	203-924-4	111-96-6	19/12/2011	<b>Toxic for reproduction (article 57 c)</b>	Solvent in chemical reactions involving metals and organometallic compounds, chemical intermediate, fuel additive Used primarily as a reaction solvent or process chemical in a wide variety of applications. Used also as solvent for battery electrolytes, and possibly in other products such as sealants, paints, coatings, adhesives, fuels and automotive care products	Low
<b>2,2'-dichloro-4,4'-methylenedianiline</b>	202-918-9	101-14-4	19/12/2011	<b>Carcinogenic (article 57 a)</b>	Curing agent for polyurethane elastomers and isocyanate-containing polymers Construction, gaskets, sport, boots, roller skate wheels, shoe soles, rolls and belt drives in cameras, computers and copy machines, wheels and pulleys, for escalators and elevators, home appliances	Low
<b>Cobalt dichloride</b>	231-589-4	7646-79-9	2011/06/20 - 2008/10/28	<b>Carcinogenic and toxic for reproduction (articles 57 a and 57 c)</b>	Intermediate, moisture indicator, dye mordant, solid lubricant, catalyst, germicide Electroplating, animal food, veterinary products, humidity indicators	Low
<b>1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich</b>	276-158-1	71888-89-6	20/06/2011	<b>Toxic for reproduction (article 57c)</b>	Plasticiser Flooring, sealants, printing inks	None
<b>1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters</b>	271-084-6	68515-42-4	20/06/2011	<b>Toxic for reproduction (article 57c)</b>	Plasticiser, reprographic agent, softener, filler, tightening material, sealer Paints, lacquers, varnishes, construction material, adhesives, inks, automotive sealant	Low
<b>Strontium chromate</b>	232-142-6	02/06/7789	20/06/2011	<b>Carcinogenic (article 57a)</b>	Corrosion inhibitor in pigments; colorant in PVC; component of chrome plating baths Anti-corrosive primer for zinc, magnesium, aluminium, and alloys used in aircraft manufacture.	None (RoHS)
<b>1-Methyl-2-pyrrolidone</b>	212-828-1	872-50-4	20/06/2011	<b>Toxic for reproduction (article 57c)</b>	Solvent, pigment dispersant, petroleum processing, spinning agent for polyvinyl chloride, intermediate Coatings, industrial and consumer cleaners, agricultural chemicals, electronics, petrochemical processing and pharmaceuticals	Low
<b>1,2,3-Trichloropropane</b>	202-486-1	96-18-4	20/06/2011	<b>Carcinogenic and toxic for reproduction (articles 57 a and 57 c)</b>	Paint and varnish remover, solvent, degreasing agent; chemical intermediate in the production of pesticides, chlorinated solvents, polysulfone liquid polymers, dichloropropene and hexafluoropropylene; cross-linking agent in the synthesis of polysulfide elastomers and hexafluoropropylene	Low

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Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
Hydrazine	206-114-9	302-01-2, 7803-57-8	20/06/2011	Carcinogenic (article 57a)	Pesticide, chemical intermediate, reducing agent, corrosion inhibitor, oxygen scavenger (for industrial boilers, heating systems, high pressure steam generators for thermal and nuclear power plants), propellant for space vehicles and satellites Chemical synthesis, water treatment, effluent treatment, explosives, nuclear waste treatment, semiconductors and electronics, photography, lubricants	Possible
2-Ethoxyethyl acetate	203-839-2	111-15-9	20/06/2011	Toxic for reproduction (article 57c)	Solvent, detergent and viscosity decreasing agent, evaporation retarder, used as a chemical intermediate for the synthesis of 2-ethoxyethyl cyanoacrylate Semiconductors, paints, adhesives, glues, cosmetics	HIGH
Cobalt(II) diacetate	200-755-8	71-48-7	15/12/2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	Bleaching agent, drier, catalyst, anodiser, stabiliser Varnish, paint, ink	Possible
Cobalt(II) sulphate	233-334-2	10124-43-3	15/12/2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	Intermediate, corrosion inhibitor, electroplating agent, catalyst, drier Batteries	Low
2-Ethoxyethanol	203-804-1	110-80-5	15/12/2010	Toxic for reproduction (article 57c)	Solvent, chemical intermediate, solvent coupler of mixtures and water-based formulations Paint formulation, varnish, enamels, nail polish, wood stains, inks, cleaners, polishes, brake fluids	None
Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	2010-12-15	Carcinogenic (article 57a)	ABS etchant, additive, catalyst, intermediate, anodiser, chrome plating agent Metal finishing, wood preservation, catalyst manufacture, pigment manufacture, manufacture of paints, varnishes and inks, putty, electronic component manufacturing	None (RoHS)
2-Methoxyethanol	203-713-7	109-86-4	2010-12-15	Toxic for reproduction (article 57c)	Solvent, chemical intermediate, solvent coupler of mixtures and water-based formulations Paint formulation, varnish, enamels, nail polish, wood stains, inks, cleaners, polishes, brake fluids	None
Chromium trioxide	215-607-8	1333-82-0	15/12/2010	Carcinogenic and mutagenic (articles 57 a and 57 b)	Additive, catalyst, intermediate, chrome plating agent, fixing agent in waterborne wood preservatives, corrosion inhibitor, anodiser Metal finishing, wood preservation, photography	None (RoHS)
Cobalt(II) carbonate	208-169-4	513-79-1	2010-12-15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	Catalyst, additive, intermediate, temperature indicator Manufacture of catalysts, animal food supplement, production of pigments (ceramic and glass), adhesives	Low
Cobalt(II) dinitrate	233-402-1	10141-05-6	2010-12-15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	Catalyst, intermediate, surface treatment agent, anodiser Manufacture of catalysts, animal food supplement, surface treatments, batteries, production of pigments (ceramic and glass), hair dyes	Low
Trichloroethylene	201-167-4	79-01-6	18/06/2010	Carcinogenic (article 57 a)	Metal degreaser, solvent, anaesthetic, vapour degreasant, chemical intermediate	None
Potassium dichromate	231-906-6	7778-50-9	18/06/2010	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	Intermediate, preservative, oxidising agent, corrosion inhibitor Cleaning and etching, cement, tanning leather, wood treatment, photography	None (RoHS)
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18/06/2010	Toxic for reproduction (article 57 c)	Flame retardant Flame retardant for natural fibres, wood preservation	None

Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
Ammonium dichromate	232-143-1	05/09/7789	18/06/2010	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	Catalyst, mordant for dyeing, leather tanning agent Fireworks, leather tanning, electronics (TV screens)	None
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	18/06/2010	Toxic for reproduction (article 57 c)	Antiseptic, insecticide, flame retardant, intermediate, additive, cross-linker Used as cross-linker to make High-strength Polyvinyl Alcohol (PVA) Fibre, component of brazing fluxes, photo paper	None
Sodium chromate	231-889-5	7775-11-03	18/06/2010	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	Chemical intermediate for pigments and catalysts, corrosion inhibitor, dyeing agent, mordant for dyes, wood preservative Pharmaceuticals, wood preservatives, leather tanning	None (RoHS)
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	18/06/2010	Toxic for reproduction (article 57 c)	Flame retardant for natural fibres, wood preservation	None
Potassium chromate	232-140-5	7789-00-6	18/06/2010	Carcinogenic and mutagenic (articles 57 a and 57 b).	Corrosion inhibitor, chemical indicator, reagent in analytical chemistry, chemical intermediate for pigments, textile mordant, oxidising agent for dyes, colouring agent Treatment and coating of metals, metallurgy of non-ferrous metals, manufacture of reagents and chemicals, manufacture of textile, colouring agent in ceramics, tanning and dressing of leather, manufacture of pigments/inks, manufacture of paper and paperboard, laboratory, manufacture of pharmaceuticals, pyrotechnics	None (RoHS)
Acrylamide	201-173-7	79-06-1	30/03/2010	Carcinogenic and mutagenic (articles 57 a and 57 b)	Reactive monomer and intermediate in production of organic chemicals, cross-linking agent in vinyl polymers Manufacture of polyacrylamides	Low
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13/01/2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	Additive, pigment Paints, coatings, inks, polymers	None (RoHS)
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13/01/2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	Additive, pigment Paints, coatings, inks, polymers	None (RoHS)
Anthracene oil	292-602-7	90640-80-5	13/01/2010	Carcinogenic <sup>1</sup> , PBT and vPvB (articles 57a, 57d and 57e)	Dye precursor, herbicide, insecticide, rodenticide Pest control, wood preservative	None
2,4-Dinitrotoluene	204-450-0	121-14-2	13/01/2010	Carcinogenic (article 57a)	Chemical intermediate in the production of toluene diisocyanate (4-methyl-m-phenylenediisocyanate), gelatinising-plasticising agent in both commercial and military explosive compositions Mattresses, cushions, munitions (smokeless gunpowder), automotive airbags	None
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13/01/2010	Carcinogenic <sup>2</sup> , mutagenic <sup>3</sup> , PBT and vPvB (articles 57a, 57b, 57d and 57e)	Dye precursor, herbicide, insecticide, rodenticide Pest control, wood preservative	None

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Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
<b>Anthracene oil, anthracene-low</b>	292-604-8	90640-82-7	13/01/2010	<b>Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)</b>	Dye precursor, herbicide, insecticide, rodenticide Pest control, wood preservative	None
<b>Tris(2-chloroethyl)phosphate</b>	204-118-5	115-96-8	13/01/2010	<b>Toxic for reproduction (article 57c)</b>	Additive plasticiser and viscosity regulator with flame-retarding properties Thermoplastics, paints and varnishes	Low
<b>Diisobutyl phthalate</b>	201-553-2	84-69-5	13/01/2010	<b>Carcinogenic (article 57a)</b>	Plasticiser, additive, binding agent Plastics, adhesives, printing inks, lacquer, explosives	Low
<b>Lead chromate</b>	231-846-0	7758-97-6	13/01/2010	<b>Carcinogenic and toxic for reproduction (articles 57 a and 57 c)</b>	Pigment Industrial paints, colouring of plastics	None (RoHS)
<b>Anthracene oil, anthracene paste</b>	292-603-2	90640-81-6	13/01/2010	<b>Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)</b>	Dye precursor, herbicide, insecticide, rodenticide Pest control, wood preservative	None
<b>Pitch, coal tar, high temp.</b>	266-028-2	65996-93-2	13/01/2010	<b>Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)</b>	Additive, intermediate, binder Road tar, waterproofing roofs, making electrodes, binding agent for clay pigeons	Low
<b>Anthracene oil, anthracene paste, distn. lights</b>	295-278-5	91995-17-4	13/01/2010	<b>Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)</b>	Dye precursor, herbicide, insecticide, rodenticide Pest control, wood preservative	None
<b>Lead hydrogen arsenate</b>	232-064-2	7784-40-9	28/10/2008	<b>Carcinogenic and toxic for reproduction (articles 57 a and 57 c)</b>	Insecticide, herbicide Control of mosquitoes and insects on apples	None (RoHS)
<b>Benzyl butyl phthalate (BBP)</b>	201-622-7	85-68-7	28/10/2008	<b>Toxic for reproduction (article 57c)</b>	Plasticiser, organic intermediate Flooring, textiles, films, sealants, paints, adhesives, cosmetics	Possible
<b>Bis (2-ethylhexyl)phthalate (DEHP)</b>	204-211-0	117-81-7	28/10/2008	<b>Toxic for reproduction (article 57c)</b>	Plasticiser PVC Flexible plastics (toys, raincoats, umbrellas, shopping bags, greenhouse sheets, hoses, tubes, wires and cables) and synthetic leather	HIGH
<b>5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)</b>	201-329-4	81-15-2	28/10/2008	<b>vPvB (article 57e)</b>	Used in large quantities in inexpensive perfumes for soap and household products as a fragrance	None
<b>Diarsenic trioxide</b>	215-481-4	1327-53-3	28/10/2008	<b>Carcinogenic (article 57a)</b>	Precursor, doping agent, decolourising agent, pigment, mordant, chemical intermediate, herbicide, insecticide, rodenticide, used in special glass production to eliminate air bubbles that may lower quality in electronic applications Wood preservative, electronics, clear glass	Possible
<b>Bis(tributyltin)oxide (TBTO)</b>	200-268-0	56-35-9	28/10/2008	<b>PBT (article 57d)</b>	Curing agent, preservative, biocide, antiseptic, refrigerant, foaming agent Wood preservative, previously for marine anti-fouling but now banned for this application	None
<b>Triethyl arsenate</b>	427-700-2	15606-95-8	28/10/2008	<b>Carcinogenic (article 57a)</b>	Doping agent, intermediate Semiconductors, integrated circuits	HIGH
<b>Diarsenic pentaoxide</b>	215-116-9	1303-28-2	28/10/2008	<b>Carcinogenic</b>	Dyeing industry, metallurgy (to harden copper, lead or gold in alloys), manufacturing of special glass, wood preservation	Low

Substance Name	EC No.	CAS No.	Candidate list date	Reason for inclusion	Possible Uses	Risk of use
<b>Sodium dichromate</b>	234-190-3	7789-12-0, 10588-01-9	28/10/2008	<b>Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)</b>	Intermediate, corrosion inhibitor, preservative, chrome plating agent Metal treatment, leather tanning, electroplating, screen printing, wood preservative	None (RoHS)
<b>Dibutyl phthalate (DBP)</b>	201-557-4	84-74-2	28/10/2008	<b>Toxic for reproduction (article 57c)</b>	Plasticiser in resins and polymers such as polyvinyl chloride (PVC), solvent for chlorinated rubber Textiles, automotive, flooring, food wraps, cosmetics, printing inks, adhesives, sealants/grouting agents, nitrocellulose paints, film coatings, glass fibres	Possible
<b>4,4'- Diaminodiphenylmethane (MDA)</b>	202-974-4	101-77-9	28/10/2008	<b>Carcinogenic (article 57a)</b>	Intermediate in production of isocyanates and polyisocyanates, hardening agent, curing agent for epoxy resins, corrosion inhibitor, breakdown product of azo dyes Thermal insulation, footwear, adhesives	Low
<b>Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)</b>	287-476-5	85535-84-8	28/10/2008	<b>PBT and vPvB (articles 57 d and 57 e)</b>	Flame retardant, plasticiser, chemical resistance, water proofing, lubricant in metal cutting Paints, sealants, adhesives, electrical batteries and accumulators, machinery, mechanical appliances, electrical/electronic articles	Possible
<b>Anthracene</b>	204-371-1	120-12-7	28/10/2008	<b>PBT (article 57d)</b>	Research chemical, intermediate for the synthesis of anthraquinone for dyes Manufacture of pyrotechnic products	None
<b>Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane</b>	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	28/10/2008	<b>PBT (article 57d)</b>	Flame retardant Thermal insulation in the construction industry, textiles (residential and commercial upholstered furniture, car interiors, transportation seating, wall coverings and draperies), packaging and electrical and electronic equipment. Used as an addition to latex binders, adhesives and paints	Possible
<b>1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear</b>	271-093-5	68515-50-4				