

2021: Version 3

Dear Customer,

Subject: SVHC declaration

ECHA has so far identified certain chemical substances as the Substances of Very High Concern (SVHC).

Appendix 1 on the following pages also gives the current list of SVHC substances which are in the Candidate List of REACH Regulation (EC/1907/2006) (Updated January 2021).

- We confirm that these substances are not present in more than 0.1% weight / weight in Polyethylene Relene JD22010.

As the list is subjected to be updated from time to time, we will also update you on the SVHC status of any such chemical, if included at later stage.

The declarations given above are applicable to the material as it leaves the RIL production facilities and does not include any substance subsequently added by the converter or any other agency. As the conditions of usage at the customer's place are beyond the control of RIL, Customers are advised to make their own decision regarding their use of our grade is safe, lawful and suitable for the intended applications.

Encl: Appendix 1

(Computer generated statement, hence does not require any signature)

| Appendix – 1 : Candidate List of Substances of Very High Concern (SVHC) for Authorisation | | | | | |
|---|--|-----------|------------|-------------------|--------------------------------------|
| Sr. No. | Name | EC no. | CAS no. | Date of inclusion | Reason for inclusion |
| 1 | Benzo[def]chrysene (Benzo[a]pyrene), Benzo[def]chrysene(Benzo[a]pyrene) | 200-028-5 | 50-32-8 | 20-06-2016 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | Toxic for reproduction (Article 57c) |
| | | | | | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 2 | 1,3-propanesultone | 214-317-9 | 1120-71-4 | 17-12-2015 | Carcinogenic (Article 57a) |
| 3 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 223-383-8 | 3864-99-1 | 17-12-2015 | vPvB (Article 57 e) |
| 4 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 253-037-1 | 36437-37-3 | 17-12-2015 | vPvB (Article 57 e) |
| 5 | Nitrobenzene | 202-716-0 | 98-95-3 | 17-12-2015 | Toxic for reproduction (Article 57c) |
| 6 | Perfluorononan-1-oic-acid and its sodium and ammonium salts | - | - | 17-12-2015 | Toxic for reproduction (Article 57c) |
| | Perfluorononan-1-oic-acid EC no.: 206-801-3 CAS no.: 375-95-1 | | | | PBT (Article 57 d) |
| | Sodium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 21049-39-8 | | | | |
| | Ammonium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 4149-60-4 | | | | |
| 7 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters | - | - | 15-06-2015 | Toxic for reproduction (Article 57c) |
| | with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5) | | | | |
| | 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters EC no.: 272-013-1 CAS no.: 68648-93-1 | | | | |
| | 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters EC no.: 271-094-0 CAS no.: 68515-51-5 | | | | |
| 8 | 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] | - | - | 15-06-2015 | vPvB (Article 57 e) |

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| | covering any of the individual stereoisomers of [1] and [2] or any combination thereof | | | | |
| | 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: - CAS no.: - | | | | |
| | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: - CAS no.: - | | | | |
| 9 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 247-384-8 | 25973-55-1 | 17-12-2014 | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 10 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 223-346-6 | 3846-71-7 | 17-12-2014 | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 11 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 239-622-4 | 15571-58-1 | 17-12-2014 | Toxic for reproduction (Article 57c) |
| 12 | Cadmium fluoride | 232-222-0 | 7790-79-6 | 17-12-2014 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | Toxic for reproduction (Article 57c) |
| | | | | | Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 13 | Cadmium sulphate | 233-331-6 | 10124-36-4, 31119-53-6 | 17-12-2014 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | Toxic for reproduction (Article 57c) |
| | | | | | Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 14 | 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 DOTE and MOTE) | - | - | 17-12-2014 | Toxic for reproduction (Article 57c) |
| 15 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 271-093-5 | 68515-50-4 | 16-06-2014 | Toxic for reproduction (Article 57c) |
| 16 | Cadmium chloride | 233-296-7 | 10108-64-2 | 16-06-2014 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |

| | | | | | Toxic for reproduction (Article 57c) |
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| | | | | | Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 17 | Sodium perborate, perboric acid, sodium salt Sodium perborate EC no.: 239-172-9 CAS no.: 15120-21-5 Perboric acid, sodium salt EC no.: 234-390-0 CAS no.: 11138-47-9 | - | - | 16-06-2014 | Toxic for reproduction (Article 57c) |
| 18 | Sodium peroxometaborate | 231-556-4 | 04-04-7632 | 16-06-2014 | Toxic for reproduction (Article 57c) |
| 19 | Cadmium sulphide | 215-147-8 | 1306-23-6 | 16-12-2013 | Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 20 | Dihexyl phthalate | 201-559-5 | 84-75-3 | 16-12-2013 | Toxic for reproduction (Article 57c) |
| 21 | Disodium 3,3'-[[1,1'- biphenyl]-4,4'- diylbis(azo)]bis(4- aminonaphthalene-1- sulphonate) (C.I. Direct Red 28) | 209-358-4 | 573-58-0 | 16-12-2013 | Carcinogenic (Article 57a) |
| 22 | 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) | 217-710-3 | 1937-37-7 | 16-12-2013 | Carcinogenic (Article 57a) |
| 23 | Imidazolidine-2-thione (2- imidazoline-2-thiol) | 202-506-9 | 96-45-7 | 16-12-2013 | Toxic for reproduction (Article 57c) |
| 24 | Lead di(acetate) | 206-104-4 | 301-04-2 | 16-12-2013 | Toxic for reproduction (Article 57c) |
| 25 | Trixylyl phosphate | 246-677-8 | 25155-23-1 | 16-12-2013 | Toxic for reproduction (Article 57c) |
| 26 | 4-Nonylphenol, branched and linear, ethoxylated substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or | - | - | 20-06-2013 | Equivalent level of concern having probable serious effects to environment (Article 57 f) |

| | combinations thereof | | | | |
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| 27 | Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 3825-26-1 | 20-06-2013 | PBT (Article 57 d) Toxic for reproduction (Article 57c) |
| 28 | Cadmium | 231-152-8 | 7440-43-9 | 20-06-2013 | Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 29 | Cadmium oxide | 215-146-2 | 1306-19-0 | 20-06-2013 | Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 30 | Dipentyl phthalate (DPP) | 205-017-9 | 131-18-0 | 20-06-2013 | Toxic for reproduction (Article 57c) |
| 31 | Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 335-67-1 | 20-06-2013 | PBT (Article 57 d) Toxic for reproduction (Article 57c) |
| 32 | 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear | 284-032-2 | 84777-06-0 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 33 | 1,2-diethoxyethane | 211-076-1 | 629-14-1 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 34 | 1-bromopropane (n-propyl bromide) | 203-445-0 | 106-94-5 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 35 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 143860-04-2 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 36 | 4,4'-methylenedi-o-toluidine | 212-658-8 | 838-88-0 | 19-12-2012 | Carcinogenic (Article 57a) |
| 37 | 4,4'-oxydianiline and its salts 4,4'-oxydianiline EC no.: 202-977-0 CAS no.: 101-80-4 | - | - | 19-12-2012 | Carcinogenic (Article 57a) Mutagenic (Article 57b) |
| 38 | 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 environment (Article 57 f) |
| 39 | 4-aminoazobenzene | 200-453-6 | 60-09-3 | 19-12-2012 | Carcinogenic (Article 57a) |
| 40 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 202-453-1 | 95-80-7 | 19-12-2012 | Carcinogenic (Article 57a) |
| 41 | 4-Nonylphenol, branched and linear | - | - | 19-12-2012 | Equivalent level of concern having probable |

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| | substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | | | | serious effects to environment (Article 57 f) |
| 42 | 6-methoxy-m-toluidine (p-cresidine) | 204-419-1 | 120-71-8 | 19-12-2012 | Carcinogenic (Article 57a) |
| 43 | [Phthalato(2-)]dioxotrilead | 273-688-5 | 69011-06-9 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 44 | Acetic acid, lead salt, basic | 257-175-3 | 51404-69-4 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 45 | Biphenyl-4-ylamine | 202-177-1 | 92-67-1 | 19-12-2012 | Carcinogenic (Article 57a) |
| 46 | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) | 214-604-9 | 1163-19-5 | 19-12-2012 | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 47 | Cyclohexane-1,2-dicarboxylic anhydride | - | - | 19-12-2012 | Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| | all possible combinations of the cis- and trans-isomers | | | | |
| | Cyclohexane-1,2-dicarboxylic anhydride EC no.: 201-604-9 CAS no.: 85-42-7 | | | | |
| | cis-cyclohexane-1,2-dicarboxylic anhydride EC no.: 236-086-3 CAS no.: 13149-00-3 | | | | |
| | trans-cyclohexane-1,2-dicarboxylic anhydride EC no.: 238-009-9 CAS no.: 14166-21-3 | | | | |
| 48 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) | 204-650-8 | 123-77-3 | 19-12-2012 | Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 49 | Dibutyltin dichloride (DBTC) | 211-670-0 | 683-18-1 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 50 | Diethyl sulphate | 200-589-6 | 64-67-5 | 19-12-2012 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| 51 | Diisopentyl phthalate | 210-088-4 | 605-50-5 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 52 | Dimethyl sulphate | 201-058-1 | 77-78-1 | 19-12-2012 | Carcinogenic (Article 57a) |
| 53 | Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 88-85-7 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 54 | Dioxobis(tearate)trilead | 235-702-8 | 12578-12-0 | 19-12-2012 | Toxic for reproduction (Article 57c) |

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| 55 | Fatty acids, C16-18, lead salts | 292-966-7 | 91031-62-8 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 56 | Furan | 203-727-3 | 110-00-9 | 19-12-2012 | Carcinogenic (Article 57a) |
| 57 | Henicosafuoroundecanoic acid | 218-165-4 | 2058-94-8 | 19-12-2012 | vPvB (Article 57 e) |
| 58 | Heptacosafuorotetradecanoic acid | 206-803-4 | 376-06-7 | 19-12-2012 | vPvB (Article 57 e) |
| 59 | Hexahydromethylphthalic anhydride including cis- and trans- stereo isomeric forms and all possible combinations of the isomers Hexahydro-1-methylphthalic anhydride EC no.: 256-356-4 CAS no.: 48122-14-1 Hexahydromethylphthalic anhydride EC no.: 247-094-1 CAS no.:25550-51-0 Hexahydro-4-methylphthalic anhydride EC no.: 243-072-0 CAS no.: 19438-60-9 Hexahydro-3-methylphthalic anhydride EC no.: 260-566-1 CAS no.: 57110-29-9 | - | - | 19-12-2012 | Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 60 | Lead bis(tetrafluoroborate) | 237-486-0 | 13814-96-5 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 61 | Lead cyanamidate | 244-073-9 | 20837-86-9 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 62 | Lead dinitrate | 233-245-9 | 10099-74-8 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 63 | Lead monoxide (lead oxide) | 215-267-0 | 1317-36-8 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 64 | Lead oxide sulfate | 234-853-7 | 12036-76-9 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 65 | Lead titanium trioxide | 235-038-9 | 12060-00-3 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 66 | Lead titanium zirconium oxide | 235-727-4 | 12626-81-2 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 67 | Methoxyacetic acid | 210-894-6 | 625-45-6 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 68 | Methyloxirane (Propylene oxide) | 200-879-2 | 75-56-9 | 19-12-2012 | Carcinogenic (Article 57a) Mutagenic (Article 57b) |
| 69 | N,N-dimethylformamide | 200-679-5 | 68-12-2 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 70 | N-methylacetamide | 201-182-6 | 79-16-3 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 71 | N-pentyl-isopentylphthalate | - | 776297-69-9 | 19-12-2012 | Toxic for reproduction (Article 57c) |

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| 72 | o-aminoazotoluene | 202-591-2 | 97-56-3 | 19-12-2012 | Carcinogenic (Article 57a) |
| 73 | o-toluidine | 202-429-0 | 95-53-4 | 19-12-2012 | Carcinogenic (Article 57a) |
| 74 | Orange lead (lead tetroxide) | 215-235-6 | 1314-41-6 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 75 | Pentacosafuorotridecanoic acid | 276-745-2 | 72629-94-8 | 19-12-2012 | vPvB (Article 57 e) |
| 76 | Pentalead tetraoxide sulphate | 235-067-7 | 12065-90-6 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 77 | Pyrochlore, antimony lead yellow, | 232-382-1 | 8012-00-8 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 78 | Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD),the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008 | 272-271-5 | 68784-75-8 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 79 | Silicic acid, lead salt | 234-363-3 | 11120-22-2 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 80 | Sulfurous acid, lead salt, dibasic | 263-467-1 | 62229-08-7 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 81 | Tetraethyllead | 201-075-4 | 78-00-2 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 82 | Tetralead trioxide sulphate | 235-380-9 | 12202-17-4 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 83 | Tricosafuorododecanoic acid | 206-203-2 | 307-55-1 | 19-12-2012 | vPvB (Article 57 e) |
| 84 | Trilead bis(carbonate) dihydroxide | 215-290-6 | 1319-46-6 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 85 | Trilead dioxide phosphonate | 235-252-2 | 12141-20-7 | 19-12-2012 | Toxic for reproduction (Article 57c) |
| 86 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme) | 203-977-3 | 112-49-2 | 18-06-2012 | Toxic for reproduction (Article 57c) |
| 87 | 1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 | 18-06-2012 | Toxic for reproduction (Article 57c) |
| 88 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 219-514-3 | 2451-62-9 | 18-06-2012 | Mutagenic (Article 57b) |

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| 89 | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC), 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione(β-TGIC) - | 423-400-0 | 59653-74-6 | 18-06-2012 | Mutagenic (Article 57b) |
| 90 | 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) | 209-218-2 | 561-41-1 | 18-06-2012 | Carcinogenic (Article 57a) |
| 91 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 | 18-06-2012 | Carcinogenic (Article 57a) |
| | [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) | 208-953-6 | 548-62-9 | 18-06-2012 | Carcinogenic (Article 57a) |
| 93 | [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) | 219-943-6 | 2580-56-5 | 18-06-2012 | Carcinogenic (Article 57a) |
| 94 | Diboron trioxide | 215-125-8 | 1303-86-2 | 18-06-2012 | Toxic for reproduction (Article 57c) |
| 95 | Formamide | 200-842-0 | 75-12-7 | 18-06-2012 | Toxic for reproduction (Article 57c) |
| 96 | Lead(II) bis(methanesulfonate), Lead(II)bis(methanesulfonate) - | 401-750-5 | 17570-76-2 | 18-06-2012 | Toxic for reproduction (Article 57c) |
| 97 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 101-61-1 | 18-06-2012 | Carcinogenic (Article 57a) |
| 98 | 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) | 229-851-8 | 6786-83-0 | 18-06-2012 | Carcinogenic (Article 57a) |
| 99 | 1,2-dichloroethane | 203-458-1 | 107-06-2 | 19-12-2011 | Carcinogenic (Article 57a) |

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| 100 | 2,2'-dichloro-4,4'-methylenedianiline | 202-918-9 | 101-14-4 | 19-12-2011 | Carcinogenic (Article 57a) |
| 101 | 2-Methoxyaniline, o-Anisidine | 201-963-1 | 90-04-0 | 19-12-2011 | Carcinogenic (Article 57a) |
| 102 | 4-(1,1,3,3-tetramethylbutyl)phenol | 205-426-2 | 140-66-9 | 19-12-2011 | Equivalent level of concern having probable serious effects to environment (Article 57 f) |
| 103 | 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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight | - | - | 19-12-2011 | Carcinogenic (Article 57a) |
| 104 | Arsenic acid | 231-901-9 | 7778-39-4 | 19-12-2011 | Carcinogenic (Article 57a) |
| 105 | Bis(2-methoxyethyl) ether | 203-924-4 | 111-96-6 | 19-12-2011 | Toxic for reproduction (Article 57c) |
| 106 | Bis(2-methoxyethyl) phthalate | 204-212-6 | 117-82-8 | 19-12-2011 | Toxic for reproduction (Article 57c) |
| 107 | Calcium arsenate | 231-904-5 | 7778-44-1 | 19-12-2011 | Carcinogenic (Article 57a) |
| 108 | Dichromium tris(chromate) | 246-356-2 | 24613-89-6 | 19-12-2011 | Carcinogenic (Article 57a) |
| 109 | Formaldehyde, oligomeric reaction products with aniline | 500-036-1 | 25214-70-4 | 19-12-2011 | Carcinogenic (Article 57a) |
| 110 | Lead diazide, Lead azide | 236-542-1 | 13424-46-9 | 19-12-2011 | Toxic for reproduction (Article 57c) |
| 111 | Lead dipicrate | 229-335-2 | 6477-64-1 | 19-12-2011 | Toxic for reproduction (Article 57c) |

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| 112 | Lead styphnate | 239-290-0 | 15245-44-0 | 19-12-2011 | Toxic for reproduction (Article 57c) |
| 113 | N,N-dimethylacetamide | 204-826-4 | 127-19-5 | 19-12-2011 | Toxic for reproduction (Article 57c) |
| 114 | Pentazinc chromate octahydroxide | 256-418-0 | 49663-84-5 | 19-12-2011 | Carcinogenic (Article 57a) |
| 115 | Phenolphthalein | 201-004-7 | 77-09-8 | 19-12-2011 | Carcinogenic (Article 57a) |
| 116 | Potassium hydroxyoctaoxodizincatedichromate | 234-329-8 | 11103-86-9 | 19-12-2011 | Carcinogenic (Article 57a) |
| 117 | Trilead diarsenate | 222-979-5 | 3687-31-8 | 19-12-2011 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |
| 118 | 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 (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight | - | - | 19-12-2011 | Carcinogenic (Article 57a) |
| 119 | 1,2,3-trichloropropane | 202-486-1 | 96-18-4 | 20-06-2011 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |
| 120 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 276-158-1 | 71888-89-6 | 20-06-2011 | Toxic for reproduction (Article 57c) |
| 121 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 271-084-6 | 68515-42-4 | 20-06-2011 | Toxic for reproduction (Article 57c) |
| 122 | 1-Methyl-2-pyrrolidone (NMP) | 212-828-1 | 872-50-4 | 20-06-2011 | Toxic for reproduction (Article 57c) |
| 123 | 2-ethoxyethyl acetate | 203-839-2 | 111-15-9 | 20-06-2011 | Toxic for reproduction (Article 57c) |

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| 124 | Hydrazine | 206-114-9 | 302-01-2, 7803-57-8 | 20-06-2011 | Carcinogenic (Article 57a) |
| 125 | Strontium chromate | 232-142-6 | 02-06-7789 | 20-06-2011 | Carcinogenic (Article 57a) |
| 126 | 2-ethoxyethanol | 203-804-1 | 110-80-5 | 15-12-2010 | Toxic for reproduction (Article 57c) |
| 127 | 2-methoxyethanol | 203-713-7 | 109-86-4 | 15-12-2010 | Toxic for reproduction (Article 57c) |
| 128 | Acids generated from chromium trioxide and their oligomers | - | - | 15-12-2010 | Carcinogenic (Article 57a) |
| | Chromic acid EC no.: 231-801-5 CAS no.: 13530-68-2 | | | | |
| | Dichromic acid EC no.: 236-881-5 CAS no.: 7738-94-5 | | | | |
| | Oligomers of chromic acid and dichromic acid EC no.: - CAS no.: - | | | | |
| 129 | Chromium trioxide | 215-607-8 | 1333-82-0 | 15-12-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| 130 | Cobalt(II) carbonate | 208-169-4 | 513-79-1 | 15-12-2010 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |
| 131 | Cobalt(II) diacetate | 200-755-8 | 71-48-7 | 15-12-2010 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |
| 132 | Cobalt(II) dinitrate | 233-402-1 | 10141-05-6 | 15-12-2010 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |
| 133 | Cobalt(II) sulphate | 233-334-2 | 10124-43-3 | 15-12-2010 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |
| 134 | Ammonium dichromate | 232-143-1 | 05-09-7789 | 18-06-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | Toxic for reproduction (Article 57c) |
| 135 | Boric acid | - | - | 18-06-2010 | Toxic for reproduction (Article 57c) |
| | EC No. 233-139-2 and EC No. 234-343-4 | | | | |
| | Boric acid, crude natural EC no.: 234-343-4 CAS no.: 11113-50-1 | | | | |
| | Boric acid EC no.: 233-139-2 CAS no.: 10043-35-3 | | | | |
| 136 | Disodium tetraborate, anhydrous | 215-540-4 | 12179-04-3, 1303-96-4, 1330-43-4 | 18-06-2010 | Toxic for reproduction (Article 57c) |

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| 137 | Potassium chromate | 232-140-5 | 7789-00-6 | 18-06-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| 138 | Potassium dichromate | 231-906-6 | 7778-50-9 | 18-06-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | Toxic for reproduction (Article 57c) |
| 139 | Sodium chromate | 231-889-5 | 03-11-7775 | 18-06-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | Toxic for reproduction (Article 57c) |
| 140 | Tetraboron disodium heptaoxide, hydrate | 235-541-3 | 12267-73-1 | 18-06-2010 | Toxic for reproduction (Article 57c) |
| 141 | Trichloroethylene | 201-167-4 | 79-01-6 | 18-06-2010 | Carcinogenic (Article 57a) |
| 142 | Acrylamide | 201-173-7 | 79-06-1 | 30-03-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| 143 | 2,4-dinitrotoluene | 204-450-0 | 121-14-2 | 13-01-2010 | Carcinogenic (Article 57a) |
| 144 | Anthracene oil, Anthraceneoil | 292-602-7 | 90640-80-5 | 13-01-2010 | Carcinogenic (Article 57a) |
| | | | | | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 145 | Anthracene oil, anthracene paste, Anthraceneoil,anthracenepaste | 292-603-2 | 90640-81-6 | 13-01-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 146 | Anthracene oil, anthracene paste, anthracene fraction, Anthraceneoil,anthracenepaste ,anthracenefraction | 295-275-9 | 91995-15-2 | 13-01-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 147 | Anthracene oil, anthracene paste, distn. Lights, Anthraceneoil,anthracenepaste ,distn.lights | 295-278-5 | 91995-17-4 | 13-01-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 148 | Anthracene oil, anthracene-low, Anthraceneoil,anthracene-low | 292-604-8 | 90640-82-7 | 13-01-2010 | Carcinogenic (Article 57a) |
| | | | | | Mutagenic (Article 57b) |
| | | | | | PBT (Article 57 d) |
| | | | | | vPvB (Article 57 e) |
| 149 | Diisobutyl phthalate | 201-553-2 | 84-69-5 | 13-01-2010 | Toxic for reproduction (Article 57c) |
| 150 | Lead chromate | 231-846-0 | 7758-97-6 | 13-01-2010 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |
| 151 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104), Leadchromatemolybdatesulph | 235-759-9 | 12656-85-8 | 13-01-2010 | Carcinogenic (Article 57a) |
| | | | | | Toxic for reproduction (Article 57c) |

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| | atered(C.I.PigmentRed104) | | | | |
| 152 | Lead sulfochromate yellow (C.I. Pigment Yellow 34), Leadsulfochromateyellow(C.I. PigmentYellow34) | 215-693-7 | 1344-37-2 | 13-01-2010 | Carcinogenic (Article 57a) Toxic for reproduction (Article 57c) |
| 153 | Pitch, coal tar, high-temp., Pitch,coaltar,high-temp. | 266-028-2 | 65996-93-2 | 13-01-2010 | Carcinogenic (Article 57a) PBT (Article 57 d) vPvB (Article 57 e) |
| 154 | Tris(2-chloroethyl) phosphate | 204-118-5 | 115-96-8 | 13-01-2010 | Toxic for reproduction (Article 57c) |
| 155 | 4,4'-Diaminodiphenylmethane (MDA) | 202-974-4 | 101-77-9 | 28-10-2008 | Carcinogenic (Article 57a) |
| 156 | 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene) | 201-329-4 | 81-15-2 | 28-10-2008 | vPvB (Article 57 e) |
| 157 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 287-476-5 | 85535-84-8 | 28-10-2008 | PBT (Article 57 d) vPvB (Article 57 e) |
| 158 | Anthracene | 204-371-1 | 120-12-7 | 28-10-2008 | PBT (Article 57 d) |
| 159 | Benzyl butyl phthalate (BBP) | 201-622-7 | 85-68-7 | 28-10-2008 | Toxic for reproduction (Article 57c) |
| 160 | Bis (2-ethylhexyl)phthalate (DEHP) | 204-211-0 | 117-81-7 | 28-10-2008 | Equivalent level of concern having probable serious effects to environment (Article 57 f) Toxic for reproduction (Article 57c) |
| 161 | Bis(tributyltin) oxide (TBTO) | 200-268-0 | 56-35-9 | 28-10-2008 | PBT (Article 57 d) |
| 162 | Cobalt dichloride | 231-589-4 | 7646-79-9 | 28-10-2008 | Carcinogenic (Article 57a) Toxic for reproduction (Article 57c) |
| 163 | Diarsenic pentaoxide | 215-116-9 | 1303-28-2 | 28-10-2008 | Carcinogenic (Article 57a) |
| 164 | Diarsenic trioxide | 215-481-4 | 1327-53-3 | 28-10-2008 | Carcinogenic (Article 57a) |
| 165 | Dibutyl phthalate (DBP) | 201-557-4 | 84-74-2 | 28-10-2008 | Toxic for reproduction (Article 57c) |
| 166 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified 1,2,5,6,9,10-hexabromocyclodecane EC no.: 221-695-9 CAS no.: 3194-55-6 gamma-hexabromocyclododecane EC no.: - CAS no.: 134237-52-8 | - | - | 28-10-2008 | PBT (Article 57 d) |

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| | Hexabromocyclododecane EC no.: 247-148-4 CAS no.: 25637-99-4 | | | | |
| | alpha-hexabromocyclododecane EC no.: - CAS no.: 134237-50-6 | | | | |
| | beta-hexabromocyclododecane EC no.: - CAS no.: 134237-51-7 | | | | |
| 167 | Lead hydrogen arsenate | 232-064-2 | 7784-40-9 | 28-10-2008 | Carcinogenic (Article 57a) Toxic for reproduction (Article 57c) |
| 168 | Sodium dichromate | 234-190-3 | 10588-01-9, 7789-12-0 | 28-10-2008 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) |
| 169 | Triethyl arsenate, Triethylarsenate | 427-700-2 | 15606-95-8 | 28-10-2008 | Carcinogenic (Article 57a) |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A) | 201-245-8 | 80-05-7 | 12-01-2017 | Endocrine disrupting properties (Article 57(f) – environment) |
| 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 206-400-3 | 335-76-2 | 12-01-2017 | Toxic for reproduction (Article 57c) PBT (Article 57 d) |
| 172 | 4-heptylphenol, branched and linear (4-HPbl) | - | - | 12-01-2017 | Equivalent level of concern having probable serious effects to environment (Article 57 f) |
| 173 | p-(1,1-dimethylpropyl)phenol | 201-280-9 | 80-46-6 | 12-01-2017 | Equivalent level of concern having probable serious effects to environment (Article 57 f) |
| 174 | Perfluorohexane-1-sulphonic acid and its salts | - | - | 07-07-2017 | vPvB (Article 57e) |
| 175 | Benz[a]anthracene | 200-280-6 | 56-55-3, 1718-53-2 | 15-01-2018 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) |
| 176 | Cadmium carbonate | 208-168-9 | 513-78-0 | 15-01-2018 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) – human health) |
| 177 | Cadmium hydroxide | 244-168-5 | 244-168-5 | 15-01-2018 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) – human health) |
| 178 | Cadmium nitrate | 233-710-6 | 233-710-6 | 15-01-2018 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) – human health) |

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| 179 | Chrysene | 205-923-4 | 205-923-4 | 15-01-2018 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) |
| 180 | Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM) | - | - | 15-01-2018 | vPvB (Article 57e) |
| 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) | - | - | 15-01-2018 | Endocrine disrupting properties (Article 57(f) – environment) |
| 182 | Octamethylcyclotetrasiloxane (D4) | 209-136-7 | 556-67-2 | 27-06-2018 | PBT (Article 57d) vPvB (Article 57e) |
| 183 | Lead | 231-100-4 | 7439-92-1 | 27/06/2018 | Toxic for reproduction (Article 57c) |
| 184 | Ethylenediamine EDA | 203-468-6 | 107-15-3 | 27/06/2018 | Respiratory sensitising properties (Article 57(f) - human health) |
| 185 | Dodecamethylcyclohexasiloxane D6 | 208-762-8 | 540-97-6 | 27/06/2018 | PBT (Article 57d) vPvB (Article 57e) |
| 186 | Disodium octaborate | 234-541-0 | 12008-41-2 | 27/06/2018 | Toxic for reproduction (Article 57c) |
| 187 | Dicyclohexyl phthalate DCHP | 201-545-9 | 84-61-7 | 27/06/2018 | Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health) |
| 188 | Decamethylcyclopentasiloxane D5 | 208-764-9 | 541-02-6 | 27/06/2018 | PBT (Article 57d) vPvB (Article 57e) |
| 189 | Benzo[ghi]perylene | 205-883-8 | 191-24-2 | 27/06/2018 | PBT (Article 57d) vPvB (Article 57e) |
| 190 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA | 209-008-0 | 552-30-7 | 27/06/2018 | Respiratory sensitising properties (Article 57(f) - human health) |
| 191 | Terphenyl, hydrogenated | 262-967-7 | 61788-32-7 | 27/06/2018 | vPvB (Article 57e) |
| 192 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 401-720-1 | 6807-17-6 | 15/01/2019 | Toxic for reproduction (Article 57c) |
| 193 | Benzo[k]fluoranthene | 205-916-6 | 207-08-9 | 15/01/2019 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) |
| 194 | Fluoranthene | 205-912-4 | 206-44-0 | 15/01/2019 | PBT (Article 57d) vPvB (Article 57e) |
| 195 | Phenanthrene | 201-581-5 | 85-01-8 | 15/01/2019 | vPvB (Article 57e) |
| 196 | Pyrene | 204-927-3 | 129-00-0 | 15/01/2019 | PBT (Article 57d) vPvB (Article 57e) |
| 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one | 239-139-9 | 15087-24-8 | 15/01/2019 | Endocrine disrupting properties (Article 57(f) - environment) |
| 198 | 2-methoxyethyl acetate | 203-772-9 | 110-49-6 | 16/07/2019 | Toxic for reproduction (Article 57 (c)) |

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| 199 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) | - | - | 16/07/2019 | Endocrine disrupting properties (Article 57(f) – environment) |
| 200 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | - | - | 16/07/2019 | Equivalent level of concern having probable serious effects to the environment (Article 57(f) – environment, human health) |
| 201 | 4-tert-butylphenol | 202-679-0 | 98-54-4 | 16/07/2019 | Endocrine disrupting properties (Article 57(f) – environment) |
| 202 | Diisohexyl phthalate | 276-090-2 | 71850-09-4 | 16/01/2020 | Toxic for reproduction (Article 57 (c)) |
| 203 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 404-360-3 | 119313-12-1 | 16/01/2020 | Toxic for reproduction (Article 57 (c)) |
| 204 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 400-600-6 | 71868-10-5 | 16/01/2020 | Toxic for reproduction (Article 57 (c)) |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts | - | - | 16/01/2020 | Equivalent level of concern having probable serious effects to the environment (Article 57(f) – environment) |
| 206 | 1-vinylimidazole | 214-012-0 | 1072-63-5 | 25/06/2020 | Toxic for reproduction (Article 57 (c)) |
| 207 | 2-methylimidazole | 211-765-7 | 693-98-1 | 25/06/2020 | Toxic for reproduction (Article 57 (c)) |
| 208 | Dibutylbis(pentane-2,4-dionato-O,O')tin | 245-152-0 | 22673-19-4 | 25/06/2020 | Toxic for reproduction (Article 57 (c)) |
| 209 | Butyl 4-hydroxybenzoate (Butylparaben) | 202-318-7 | 94-26-8 | 25/06/2020 | Endocrine disrupting properties - human health (Article 57(f) – human health) |
| 210 | Bis(2-(2-methoxyethoxy)ethyl)ether | 205-594-7 | 143-24-8 | 19/01/2021 | Toxic for reproduction (Article 57 (c)) |
| 211 | 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 | - | - | 19/01/2021 | Toxic for reproduction (Article 57 (c)) |

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