
Harwin is aware of the EC Directive EC1907/2006, known as REACH (Registration, Evaluation, Authorisation and Restriction of Chemical substances).

Registration (or pre-registration) is required for companies that either produce or import into the EU any substance in volumes that exceed one tonne per substance per year. Harwin do not exceed this import amount, nor do we produce our own substances, and will therefore not be required to register.

Full Material Declarations (Material Composition data) are available to download for a number of Harwin products. To see if a FMD has already been produced, please search for the part number on our website, and the FMD (Material Composition data) will be available from the Product Page. If you are unable to find the FMD for the product you require, please contact: ComplianceTeam@harwin.co.uk.

SVHC (Substances of Very High Concern) declaration.

Harwin operate an on-going due diligence programme to check that all active standard Harwin products (listed as not obsolete in our catalogue or on our website) and packaging do not contain any of the 219 substances included on the Candidate List of Substances of Very High Concern (SVHC list), published 8th July 2021. The sole exception is Lead that is contained within certain products. If used, Lead will be listed in the product’s Full Material Declaration (Material Composition data). The current SVHC list can be found here: http://echa.europa.eu/candidate-list-table

A summary of the list also follows on pages 3 to 9 of this document.

Annex XIV (“Authorisation List”) is a subset of the SVHC list, which does not include Lead, and therefore are not contained in our products or materials. The current list can be found here: https://echa.europa.eu/authorisation-list

Annex XVII (“Restriction List”).

Harwin operate an on-going due diligence programme to check all active standard Harwin products (listed as not obsolete in our catalogue or on our website), either:

a) Do not contain any of the 69 substances included on the Restriction List, published 4th June 2021, or

b) The Conditions (as listed against each substance) are not relevant to our final products or materials.
The current list can be found here: https://echa.europa.eu/substances-restricted-under-reach
A summary of the list also follows on pages 10 to 12 of this document.

If you have any further questions regarding this letter, please do not hesitate to contact the Harwin Compliance Team at the email address below

M. J. Perry

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ADDITIONS 08-07-2021
- 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers
- Orthoboric acid, sodium salt
- 2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)
- Glutaral
- Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17
- Phenol, alklylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)
- 1,4-dioxane
- 4,4’-(1-methylpropylenedioxy)biphenol

ADDITIONS 19-01-2021
- Bis(2-(2-methoxyethoxy)ethyl)ether
- Dioctyl dilaurate, stannane, diocetyl, bis(coco acyloxy) derivs., and any other stannane, diocetyl, bis(fatty acyloxy) derivs. Wherein C12 is the predominant carbon member of the fatty acyloxy moiety

ADDITIONS 25-06-2020
- 1-vinylimidazole
- 2-methylimidazole
- Dibutylbis(pentane-2,4-dionate-0,0’m)tin
- Butyl 4-hydroxybenzoate (butylparaben)

ADDITIONS 16-01-2020
- Diisoheptyl phthalate
- 2-benzyl-2-dimethylamino-4’-morpholinobutyrophenone
- 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
- Perfluorobutane sulfonic acid (PBS) and its salts

ADDITIONS 16-07-2019
- 2-methoxyethyl acetate
- Tris(4-onylphenyl, branched and linear) phosphate (TNPP) with >= 0.1% w/w of 4-onylphenol, branched and linear (4-NP)
- 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)
- 4-tert-butylphenol

ADDITIONS 15-01-2019
- 2,2-bis(4'-hydroxyphenyl)-4-methylpentane
- Benzo[k]fluoranthenes
- Fluoranthenes
- Phenanthrenes
- Pyrenes
- 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one

ADDITIONS 27-06-2018
- Benzene-1,2,4-tricarboxylic acid 1,2 anhydride [trimellitic anhydride; TMA]
- Benzo[ghi]perylene
Decamethylcyclopentasiloxane [D5]
- Dicyclohexyl phthalate [DCHP]
- Disodium octaborate
- Dodecamethylnonocylexasiloxane [D6]
- Ethylenediamine [EDA]
- Lead
- Octamethyloxotetrasiloxane [D4]
- Terphenyl, hydrogenated

**Additions 15-01-2018**
- 1,6,7,8,9,14,15,16,17,18,18-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]
- 4,4'-isopropylendiphenol [Bisphenol A; BPA]—updated for additional reason of inclusion
- Benz[a]anthracene
- Cadmium carbonate
- Cadmium hydroxide
- Cadmium nitrate
- Chrysene
- 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 (4-HPbi)]

**Additions 07-07-2017**
- 4,4'-isopropylendiphenol [Bisphenol A; BPA]—updated for additional reason of inclusion
- Perfluorohexane-1-sulphonic acid and its salts [PFHxS]

**Additions 12-01-2017**
- 4,4'-isopropylendiphenol [Bisphenol A; BPA]
- 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]
- Nonadecafluorodecanolic acid (PFDA) and its sodium and ammonium salts [Nonadecafluorodecanolic acid (EC no.: 206-400-3, CAS no.: 335-76-2); Ammonium nonadecafluorodecanolate (EC no.: 221-470-5, CAS no.: 3108-42-7); Decanoic acid, nonadecafluoro-, sodium salt (EC no.: -; CAS no.: 3830-45-3)]
- p-(1,1-dimethylpropyl)phenol

**Addition 20-06-2016**
- Benzo[def]chrysene (Benzo[a]pyrene)

**Additions 17-12-2015**
- 1,3-propanesultone
- 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)
- 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)
- Nitrobenzene
- Perfluorononan-1-oic-acid and its sodium and ammonium salts [Perfluorononan-1-oic-acid (EC no.: 206-801-3, CAS no.: 375-95-1); Sodium salts of perfluorononan-1-oic-acid (EC no.: -, CAS no.: -); Ammonium salts of perfluorononan-1-oic-acid (EC no.: -; CAS no.: -; 4149-60-4)]

**Additions 15-06-2015**
- 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); 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)
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: 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.: -))

**Additions 17-12-2014**

- Bis(2-ethylhexyl) phthalate (DEHP) – updated for additional reason of inclusion
- 2-(2H-benzotriazol-2-yl)-4,6-dipentylphenol (UV-328)
- 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
- 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)
- Cadmium fluoride
- Cadmium sulphate
- 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)

**Additions 16-06-2014**

- 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear
- Cadmium chloride
- Sodium perborate; perboric acid, sodium salt [Perboric acid, sodium salt (EC no.: 234-390-0, CAS no.: 11138-47-9); Sodium perborate (EC no.: 239-172-9, CAS no.: 15120-21-5)]
- Sodium peroxometaborate

**Additions 16-12-2013**

- Cadmium sulphide
- Diethyl phthalate
- Disodium 3,3’-[[1,1’-biphenyl]-4,4’-diallyl[azo]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)
- 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)
- Imidazoline-2-thione; (2-imidazoline-2-thiol)
- Lead di(acetate)
- Triethyl phosphate

**Additions 20-06-2013**

- 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 combinations thereof]
- Ammonium pentadecafluorooctanoate (APFO)
- Cadmium
- Cadmium oxide
- Dipentyl phthalate (OPP)
- Pentadecafluorooctanoic acid (PFOA)

**Additions 19-12-2012**

- 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear
- 1,2-Diethoxyethane
- 1-bromopropane (n-propyl bromide)
- 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
- 4,4’-methylenebis-(toluidine)
- 4,4’-oxydianilene and its salts [4,4’-oxydianilene (EC no.: 202-977-0, CAS no.: 101-80-4)]
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]

4-aminoazobenzene

4-methyl-1-phenylenediamine (toluene-2,4-diamine)

4-Nonylphenol, branched and linear [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]

6-methoxy-m-toluidine (p-cresidine)

[Phthalato(2-)]dioxotridecane

Acetic acid, lead salt, basic

Biphenyl-4-ylamine

Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)

Cyclohexane-1,2-dicarboxylic anhydride [all possible combinations of the cis- and trans-isomers: trans-cyclohexane-1,2-dicarboxylic anhydride (EC no.: 238-009-9, CAS no.: 14166-21-3); cis-cyclohexane-1,2-dicarboxylic anhydride (EC no.: 236-086-3, CAS no.: 13149-00-3); Cyclohexane-1,2-dicarboxylic anhydride (EC no.: 201-604-9, CAS no.: 85-42-7)]

Diazezine-1,2-dicarboxamide (C,C’-azodi(formamide)) (ADCA)

Dibutyltin dichloride (DBTC)

Diethyl sulphate

Diisopentyl phthalate

Dimethyl sulphate

Dinoseb (6-sec-butyl-2,4-dinitrophenol)

Dioctylsineate(tridecane)

Fatty acids, C16-18, lead salts

Furan

Henicosfluoroundecanoic acid

Heptacosfluorotetradecanoic acid

Hexahydrodiphenylphthalic anhydride [including cis- and trans- stereo isomeric forms and all possible combinations of the isomers: Hexahydro-4-methylphthalic anhydride (EC no.: 243-072-9, CAS no.: 19438-60-9); Hexahydro-3-methylphthalic anhydride (EC no.: 260-566-1, CAS no.: 57110-29-3); Hexahydro-1-methylphthalic anhydride (EC no.: 256-356-4, CAS no.: 48122-14-1); Hexahydrodiphenylphthalic anhydride (EC no.: 247-094-1, CAS no.: 25550-51-0)]

Lead bis(tetrafluoroborate)

Lead cyanamidate

Lead dinitrate

Lead monoxide (lead oxide)

Lead oxide sulphate

Lead titanium trioxide

Lead titanium zirconium oxide

Methoxyacetic acid

Methylxiriane (Propylene oxide)

N,N-dimethylformamide

N-methylacetamide

N-pentyl-isopentylphthalate

o-aminoazotoluene

o-toluidine

Orange lead (lead tetroxide)

Pentacosfluorotetradecanoic acid
Pentalead tetraoxide sulphate
Pyroclore, antimony lead yellow
Silicic acid (H₄SiO₄), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CIP) or category 1 (OSD); 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]
Silicic acid, lead salt
Sulfurous acid, lead salt, dibasic
Tetraethyllead
Tetralead trioxide sulphate
Tricosalfluorododecanoic acid
Trilead bis(carbonate)dihydroxide
Trilead dioxide phosphonate

**ADDITIONS 18-06-2012**

1,2-bis(2-methoxyethoxy)ethane (TEGME, triglyme)
1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)
1,3,5-Tris(oxyran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)
1,3,5-tris(25 and 2R)2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)
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)]
4,4′-bis(dimethylamino)benzophenone (Michler’s ketone)
[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)]
[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)]
Diboron trioxide
Formamide
Lead(II) bis(methanesulfonate)
N,N,N′,N′-tetramethyl-4,4′-methylenedianiline (Michler’s base)
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)]

**ADDITIONS 19-12-2011**

1,2-dichloroethane
2,2′-dichloro-4,4′-methylenedianiline (MOCA)
2-Methoxyaniline; o-Anisidine
4-(1,1,3,3-tetramethylbutyl)phenol
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 alkal earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.]
Arsenic acid
Bis(2-methoxyethyl) ether
Bis(2-methoxyethyl) phthalate
Calcium arsenate
- Dichromium tris(chromate)
- Formaldehyde, oligomeric reaction products with aniline
- Lead diazide, Lead azide
- Lead dipicrate
- Lead stynphate
- N,N-dimethylacetamide
- Pentazinc chromate octahydroxide
- Phenolphthalein
- Potassium hydroxyoctaoxodizincatedichromate
- Trilead diarsenate
- 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 alkal earth oxide (Na₂O*K₂O*CaO*MgO*BaO) content less or equal to 18% by weight.

**ADDITIONS 20-06-2011**

- Cobalt dichloride – updated for additional reason of inclusion
- 1,2,3-trichloropropane
- 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich
- 1,2-Benzenedicarboxylic acid, di-C7-T1-branched and linear alkyl esters
- 1-Methyl-2-pyrrolidone (NMP)
- 2-ethoxyethyl acetate
- Hydrazine
- Strontium chromate

**ADDITIONS 15-12-2010**

- 2-ethoxyethanol
- 2-methoxyethanol
- Acids generated from chromium trioxide and their oligomers [Dichromic acid (EC no.: 236-881-5, CAS no.: 7738-94-5); Oligomers of chromic acid and dichromic acid (EC no.: 7, CAS no.: 7); Chromic acid (EC no.: 231-801-5, CAS no.: 13530-68-2)]
- Chromium trioxide
- Cobalt(II) carbonate
- Cobalt(II) diacetate
- Cobalt(II) dinitrate
- Cobalt(II) sulphate

**ADDITIONS 18-06-2010**

- Ammonium dichromate
- Boric acid [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)]
- Disodium tetraborate, anhydrous
- Potassium chromate
Potassium dichromate
Sodium chromate
Tetraboron disodium heptaoxide, hydrate
Trichloroethylene

**ADDITION 30-03-2010**

- Acrylamide

**ADDITIONS 13-01-2010**

- 2,4-dinitrotoluene
- Anthracene oil
- Anthracene oil, anthracene paste
- Anthracene oil, anthracene paste, anthracene fraction
- Anthracene oil, anthracene paste, distn. lights
- Anthracene oil, anthracene-low
- Diisobutyl phthalate (DIBP)
- Lead chromate
- Lead chromate molybdate sulphate red (C.I. Pigment Red 104)
- Lead sulfochromate yellow (C.I. Pigment Yellow 34)
- Pitch, coal tar, high temp.
- Tris(2-chloroethyl)phosphate

**ORIGINAL LIST 28-10-2008**

- 4,4'-Diaminodiphenylmethane (MDA)
- 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)
- Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)
- Anthracene
- Benzyl butyl phthalate (BBP)
- Bis(2-ethylhexyl)phthalate (DEHP)
- Bis(tributyltin) oxide (TBTO)
- Cobalt dichloride
- Diarsenic pentaoxide
- Diarsenic trioxide
- Diisobutyl phthalate (DBP)
- Hexabromocyclododecane (HBCDD) *and all major diastereoisomers identified: gamma-hexabromocyclododecane (EC no.: , CAS no.: 134237-52-8); beta-hexabromocyclododecane (EC no.: , CAS no.: 134237-51-7); Hexabromocyclododecane (EC no.: 247-148-4, CAS no.: 25637-99-4); 1,2,5,6,9,10-hexabromocyclododecane (EC no.: 221-695-9, CAS no.: 3194-55-6); alpha-hexabromocyclododecane (EC no.: , CAS no.: 134237-50-6)*
- Lead hydrogen arsenate
- Sodium dichromate
- Triethyl arsenate
SUBSTANCES NOT INCLUDED IN HARWIN PRODUCTS/MATERIALS

- Octamethylcyclotetrasiloxane (D4); Decamethylocyclopentasiloxane (D5)
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethene
- 1,4-Dichlorobenzene
- 1-methyl-2-pyrrolidone
- 2-naphthylamine and its salts:  
  Salts of 2-naphthylamine; 2-naphthylammonium acetate; 2-naphthylamine; 2-naphthylammonium chloride.
- 4,4'-isopropylidenediphenol
- 4-Aminobiphenyl xylene and its salts:  
  4-Aminobiphenyl xylene.
- 4-Nitrophenyl
- Asbestos fibres:  
  Actinolite; Tremolite; Amosite; Chrysotile; Crocidolite; Anthophyllite.
- Benzene
- Benzidine and its salts:  
  Benzidine; Salts of benzidine.
- Bis(pentabromophenyl) ether
- Cadmium and its compounds (see Europa website for full list) – already covered by RoHS
- Chloroform
- Di-µ-oxo-di-n-butylstannioxyborane / Dibutyltin hydrogen borate C8H19BO3Sn (DBB)
- Dimethyluramate (DMF)
- Diphenylether, octabromo derivative C12H2Br80
- Entry 62:  
  Phenyldmercury octanate; Phenylmercury neodecanoate; Phenylmercury propionate; Phenylmercury acetate; Phenylmercury 2-ethylhexanoate.
- Methanol
- Monomethyl — tetrachlorodiphenyl methane Trade name: Ugone 141
- Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT
- Monomethyl-dichloro-diphenyl methane Trade name: Ugone 121, Ugone 21
- Octamethylcyclotetrasiloxane (D4); Decamethylocyclopentasiloxane (D5)
- Organostannic compounds
- Pentachloroethane
- Pentachlorophenol and its salts and esters (see Europa website for full list)
- Perfluorooctanoic acid (PFOA) and its salts
- Polybromodiphenyls, Polybrominateddiphenyls (PBB) – already covered by RoHS
- Polychlorinated terphenyls (PCTs)
- Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2) and listed as follows (See group members):
  - Carcinogen category 1B (Table 3.1)/ carcinogen category 2 (Table 3.2) listed in Appendix 2.
  - Carcinogen category 1A (Table 3.1)/ carcinogen category 1 (Table 3.2) listed in Appendix 1.
- Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2) and listed as follows (See group members):
Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows (See group members):

- Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6;
- Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5.

Trichlorobenzene

**CONDITIONS NOT RELEVANT TO HARWIN PRODUCTS/MATERIALS**

- 2-(2-butoxyethoxy)ethanol (DEGBE)
- 2-(2-methoxyethoxy)ethanol (DEGME)
- Acrylamide
- Ammonium nitrate (AN)
- Arsenic compounds (see Europa website for full list)
- Azocolourants and Azodyes
- Bisphenol A (4,4’-isopropylidenediphenol)
- Chloroethene, Chloroethylene (Vinyl chloride)
- Chromium VI compounds
- Cyclohexane
- Dichloromethane
- Entry 10:
  - Ammonium hydrogen sulphide; Ammonium polysulphide; Ammonium sulphide.
- Entry 3t:
  - Creosote, wood; Tar acids, coal, crude; crude phenols; Distillates (coal tar), upper; heavy anthracene oil; Creosote oil - wash oil; Creosote - wash oil; Anthracene oil; Creosote oil; acenaphthene fraction - wash oil; Low temperature tar oil, alkaline - extract residues (coal), low temperature coal tar alkaling Distillates (coal tar), naphthalene oils - naphthalene oil.
- Entry 46:
  - Nonylphenol C6H4(OH)C9H19; Nonylphenol ethoxylates (C2H4O)nC15H24O
- Entry 9:
  - Benzidine and/or its derivatives; Powder of the roots of Helleborus viridis and Helleborus niger; o-Nitrobenzaldehyde; Wood powder; Soap bark powder (Quillaja saponaria) and its derivatives containing saponins; Powder of the roots of Veratrum album and Veratrum nigrum.
- Hexachloroethane
- Inorganic ammonium salts
- Lead and its compounds (covered separately by RoHS):
  - Lead compounds; Lead.
- Lead carbonates:
  - Trilead-bis(carbonate)-dihydroxide 2PbCO3Pb(OH)2; Neutral anhydrous carbonate (PbCO3).
- Lead sulphates:
  - Lead sulphate PbSO4; Sulphuric acid, lead salt PbSO4.
- Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 (See group members):
  - Hazard class 4.1:
  - Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10.
Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;

Hazard class 5.1.

- Mercury
- Mercury compounds
- Methylenebiphenyl disocyanate (MDI) including the following specific isomers (See group members):
  - 4,4' -Methylenebiphenyl disocyanate;
  - 2,4' -Methylenebiphenyl disocyanate;
  - 2,2' -Methylenebiphenyl disocyanate.
- Nickel and its compounds (applications listed in the Conditions do not cover any electronics components):
  - Nickel compounds Nickel
- Nonylphenol ethoxylates (C2H4O)nC15H24O:
  - Nonylphenol, ethoxylated; 4-Nonylphenol, ethoxylated; Nonylphenol, branched, ethoxylated, phosphated;
  - 4-Nonylphenol, branched, ethoxylated; Isononylphenol, ethoxylated; Nonylphenol, branched, ethoxylated.
- Polycyclic-aromatic hydrocarbons (PAH):
  - Benzo[a]pyrene (BaP);
  - Dibenzo[a,h]anthracene (DBAH), Benzo[a]anthracene (BaA), Chrysene (CHR);
  - Benzo[j]fluoranthene (BfA), Benzo[k]fluoranthene (BkF), Benzo[e]pyrene (BeP).
- Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not
- The following phthalates (or other CAS and EC numbers covering the substance) (See group members) [Entry 51]:
  - Dibutyl phthalate (DBP); Benzyl butyl phthalate (BPB); Bis (2-ethylhexyl) phthalate (DEHP)
- The following phthalates (or other CAS and EC numbers covering the substance) (See group members) [Entry 52]:
  - Di-n-octyl phthalate (ONP);
  - 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich, Di-
  - “isononyl” phthalate (DINP);
  - Di-“isodecyl” phthalate (DIDP);
  - 1,2-Benzenedicarboxylic acid, di-C9-11-
  - branched alkyl esters, C10-rich.
- Toluene
- Tris(2,3 dibromopropyl) phosphate
- Tris(aziridinyl)phosphin oxide
- Volatile esters of bromoacetic acids:
  - Propyl bromoacetate; Butyl bromoacetate; Ethyl bromoacetate; Methyl bromoacetate.