Dear Customer,

I can hereby confirm that Harwin are aware of the EC Directive EC1907/2006, known as REACH (Registration, Evaluation, Authorisation and Restriction of Chemical substances).

To the best of our understanding, 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) is available from the Product Page. If you are unable to find the FMD of the product you require, please contact: ComplianceTeam@harwin.co.uk.

SVHC (Substances of Very High Concern) declaration.
To the best of our understanding, all active standard Harwin products (those listed in our catalogue or on our website, and not obsolete) and packaging, irrespective of Country of Origin of the final product or materials, do not contain any of the 209 substances included on the Candidate List of Substances of Very High Concern (SVHC list) as it stands updated 25th June 2020, with the sole exception of Lead in certain products. If used, Lead will be listed in a 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”).
To the best of our understanding, all active standard Harwin products (those listed as not obsolete in our catalogue or on our website), irrespective of Country of Origin of the final product or materials, either:
  a) do not contain any of the 70 substances included on the Restriction List as it stands updated 24th June 2020, 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 me.

Yours faithfully,

[Signature]

Martin J. Perry, BSc(Eng) MSc CEng MIET
Product Environmental Compliance Specialist
ComplianceTeam@harwin.co.uk
**ADDITIONS 25-06-2020**

- 1-vinylimidazole
- 2-methylimidazole
- Dibutylbis(pentane-2,4-dionate-0,0′)tin
- Butyl 4-hydroxybenzoate (butylparaben)

**ADDITIONS 16-01-2020**

- Diisohexyl phthalate
- 2-benzyl-2-dimethylamino-4′-morpholinobutyrophenone
- 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
- Perfluorobutane sulfonic acid (PFBS) and its salts

**ADDITIONS 16-07-2019**

- 2-methoxyethyl acetate
- Tris(4-nonylphenyl, branched and linear) phosphate (TNPP) with >= 0.1% w/w of 4-nonylphenol, 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
- Benzoc[4]fluoranthene
- Fluoranthene
- Phenanthrene
- Pyrene
- 1,7,7-trimethyl-3-(phenylmethylenecyclohexan-1-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
- Dodecamethylcyclohexasiloxane [D6]
- Ethylenediamine [EDA]
- Lead
- Octamethylcyclotetrasiloxane [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′-isopropylidenediphenol [Bisphenol A; BPA] - updated for additional reason of indusion
- 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-HPb)]

**ADDITIONS 07-07-2017**

- 4,4’-isopropylidenediophenyl [Bisphenol A; BPA] – updated for additional reason of inclusion
- Perfluorohexane-1-sulphonic acid and its salts [PFHxs]

**ADDITIONS 12-01-2017**

- 4,4’-isopropylidenediophenyl [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]
- Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts [Nonadecafluorodecanoic acid (EC no.: 206-400-3, CAS no.: 335-76-2); Ammonium nonadecafluorodecanoate (EC no.: 221-470-5, CAS no.: 3108-42-7); Decanoic acid, nonadecafluoro-, sodium salt (EC 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-aloyl 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-aloyl esters (EC no.: 277-094-0, 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.: 31066-50-0, CAS no.: -); 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane (EC no.: 31066-50-0, CAS no.: -)

**ADDITIONS 17-12-2014**

- Bis(2-ethylhexyl) phthalate (DEHP) – updated for additional reason of inclusion
- 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
- 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
- 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-ooxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)
- Cadmium fluoride
- Cadmium sulphate
- Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-ooxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxyethyl]thio]-4-octyl-7-ooxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOT E and MOTE)
ADDITIONS 16-06-2014

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

ADDITIONS 16-12-2013

- Cadmium sulphide
- Dihexyl phthalate
- Disodium 3,3’-[[1,1’-biphenyl]-4,4’-diylbis(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)
- Imidazole-2-thione; (2-imidazole-2-thiol)
- Lead di(acetate)
- Trixyyl 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 pentadecafluoroocanoate (APFO)
- Cadmium oxide
- Dipentyl phthalate (DPP)
- Pentadecafluoroocanoic 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’-methylene-dio-toluidine
- 4,4’-oxydianiline and its salts [4,4’-oxydianiline \ (\text{EC no.}: \ 202-977-0, \ \text{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-n-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-)]dioxotriload
- 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))

Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)

Dibutyltin dichloride (DBTC)

Diethyl sulphate

Diisopentyl phthalate

Dimethyl sulphate

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

Dioxobis(stearato)trilead

Fatty acids, C16-18, lead salts

Furan

Henicosaflurooundecanoic acid

Heptacosfluorotetradecanoic acid

Hexahydromethylphthalic anhydride [including cis- and trans- stereo isomeric forms and all possible combinations of the isomers: 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); 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)]

Lead bis(tetrafluoroborate)

Lead cyanamidate

Lead dinitrate

Lead monoxide (lead oxide)

Lead oxide sulphate

Lead titanium trioxide

Lead titanium zirconium oxide

Methoxyacetic acid

Methylxiran (Propylene oxide)

N,N-dimethylformamide

N-methylacetamide

N-pentyl-isopentylphthalate

o-aminoazotoluene

o-toluidine

Orange lead (lead tetroxide)

Pentacosfluorotridecanoic acid

Pentalead tetroxide sulphate

Pyrochlore, antimony lead yellow

Silicic acid (H2SiO3), 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)

Silicic acid, lead salt

Sulfurous acid, lead salt, dibasic

Tetaethyllead

Tetralead tetroxide sulphate

Tricosfluorodecanoic acid

Trilead bis(carbonate)dihydroxide

Trilead dioxide phosphonate
ADDITIONS 18-06-2012

- 1,2-bis-(2-methoxyethoxy)ethane (TEGDME, triglyme)
- 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)
- 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinan-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-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]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 stypnate
N,N-dimethylacetamide
Pentazinc chromate octahyroxide
Phenolphthalein
Potassium hydroxyoctaoxodincatedichromate
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 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.]

**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-C7-11-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.: , CAS no.: ); 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 pentoaxide
- Diarsenic trioxide
- Dibutyl 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); Decamethylcyclopentasiloxane (D5)
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethene
- 1,4-Dichlorobenzene
- 1-methyl-2-pyrrolidine
- 2-naphthylamine and its salts: 
  Salt of 2-naphthylamine; 2-naphthylammonium acetate; 2-naphthylamine; 2-naphthylammonium chloride.
- 4,4′-isopropylidenediphenol
- 4-Aminobiphenyl xenylene and its salts: 
  4-Aminobiphenyl xenylene.
- 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-butylstanniohydroxyborane / Dibutyltin hydrogen borate C8H19BO3Sn (DBB)
- Dimethylurea (DMF)
- Diphenylether, octabromo derivative C12H2Br8O
- Entry 62: 
  Phenylmercury octanoate; Phenylmercury neodecanoate; Phenylmercury propionate; Phenylmercury acetate; Phenylmercury 2-ethylhexanoate.
- Methanol
- Monomethyl—tetrachlorodiphenyl methane Trade name: Ugilec 141
- Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT
- Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121, Ugilec 21
- Octamethylcyclotetrasiloxane (D4); Decamethylcyclopentasiloxane (D5)
- Organostannic compounds
- Pentachloroethane
- Pentachlorophenol and its salts and esters (see Europa website for full list)
- Perfluorooctanoic acid (PFOA) and its salts
- Polybromobiphenyls, Polybrominatedbiphenyls (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 cardenogen 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):
Mutagen category 1B (Table 3.1)/ mutagen category 2 (Table 3.2) listed in Appendix 4:
Mutagen category 1A (Table 3.1)/ mutagen category 1 (Table 3.2) listed in Appendix 3

- 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)
- Azocolours and Azodies
- Bisphenol A (4,4’-isopropylidenediphenol)
- Chloroethene, Chloroethylene (Vinyl chloride)
- Chromium VI compounds
- Cyclohexane
- Dichloromethane

- Entry 10:
  - Ammonium hydrogen sulphide, Ammonium polysulphide, Ammonium sulphide.

- Entry 31:
  - Creosote, wood Tar adds, 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 alkaline; Distillates (coal tar), naphthalene oils - naphthalene oil.

- Entry 46:
  - Nonylphenol C6H4(0H)C9H19; Nonylphenol ethoxylates (C2H40)nC15H240

- Entry 9:
  - Benzidine and/or its derivatives: Powder of the roots of Helleborus viridis and Helleborus niger; α-Nitrobenzaldehyde; Wood powder; Soap bark powder (Quillaja saponaria) and its derivatives containing saponines; 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 2PbCO3·Pb(OH)2; Neutral anhydrous carbonate (PbCO3).
- Lead sulphates:
  - Lead sulphate PbSO4; Sulphuric acid, lead salt PbH SO4.
- 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

Methylenediphenyl disocyanate (MDI) including the following specific isomers (See group members): 4,4’-Methylenediphenyl disocyanate, 4,4’-methylenediphenyl disocyanate; Methylenediphenyl disocyanate (MDI); 2,4’-Methylenediphenyl 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; Isonylphenol, ethoxylated; Nonylphenol, branched, ethoxylated.

Polycyclic-aromatic hydrocarbons (PAH):
Benzo[a]pyrene (BaP); Dibenzo[a,h]anthracene (DBAha); Benzo[a]anthracene (BaA); Chrysene (CHR); Benzo[g]fluoranthene (BfA); Benzo[b]fluoranthene (BbFA); Benzo[k]fluoranthene (BkFA); 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 (BBP); 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 (DNOP); 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)phosphinoxide

Volatile esters of bromoacetic acids:
Propyl bromoacetate; Butyl bromoacetate; Ethyl bromoacetate; Methyl bromoacetate.