



## Certificate of non-use of REACH Directive 233 Substances of Very High Concern (SVHC)

We hereby certify the products supplied to your company - to the best of our knowledge, conforms to the criterion of EC 1907/2006 REACH directive in connection with 233 substances of very high concern as follows: Prohibit substances

- 1. Triethly arsenate < 0.1%
- 2. Anthracene < 0.1%
- 3. 4,4'- Diaminodiphenylmethane(MDA) < 0.1%
- 4. Dibutyl phthalate(DBP) < 0.1%
- 5. Cobalt dichromate < 0.1%
- 6. Diarsenic pentraoxide < 0.1%
- 7. Diarsenic trioxide < 0.1%
- 8. Sodium dichromate < 0.1%
- 9. 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) < 0.1%
- 10. Bis (2-ethylhexyl)phthalate (DEHP) < 0.1%
- 11. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:

Alpha-hexabromocyclododecane < 0.1%

Beta-hexabromocyclododecane < 0.1%

Gamma-hexabromocyclododecane < 0.1%

- 12. Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) < 0.1%
- 13. Bis(tributyltin)oxide (TBTO) < 0.1%
- 14. Lead hydrogen arsenate < 0.1%
- 15. Benzyl butyl phthalate (BBP) < 0.1%
- 16. Anthracene oil < 0.1%
- 17. Anthracene oil, anthracene paste, distn. lights < 0.1%
- 18. Anthracene oil, anthracene paste, anthracene fraction < 0.1%
- 19. Anthracene oil, anthracene-low < 0.1%
- 20. Anthracene oil, anthracene paste < 0.1%
- 21. Pitch, coal tar, high temp. < 0.1%
- 22. 2,4-Dinitrotoluene < 0.1%
- 23. Diisobutyl phthalate < 0.1%
- 24. Lead chromate < 0.1%
- 25. Lead sulfochromate yellow (C.I. Pigment Yellow 34) < 0.1%
- 26. Lead chromate molybdate sulphate red (C.I. Pigment Red 104) < 0.1%
- 27. Tris(2-chloroethyl)phosphate < 0.1%
- 28. Ammonium dichromate < 0.1%

- 29. Disodium tetraborate, anhydrous < 0.1%
- **30. Boric acid** < **0.1%**
- 31. Potassium chromate < 0.1%
- 32. Sodium chromate < 0.1%
- 33. Tetraboron disodium heptaoxide, hydrate < 0.1%
- 34. Trichloroethylene < 0.1%
- 35. Potassium dichromate < 0.1%
- 36. Acrylamide < 0.1%
- 37. Cobalt(II) carbonate < 0.1%
- 38. Cobalt(II) diacetate < 0.1%
- 39. Cobalt(II) dinitrate < 0.1%
- 40. Cobalt(II) sulphate < 0.1%
- 41. 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. < 0.1%
- 42. Chromium trioxide < 0.1%
- 43. 2-Ethoxyethanol < 0.1%
- 44. 2-Methoxyethanol < 0.1%
- 45. 2-Ethoxyethyl acetate < 0.1%
- 46. Strontium chromate < 0.1%
- 47. 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters < 0.1%
- **48. Hydrazine** < **0.1%**
- 49. 1-Methyl-2-pyrrolidone < 0.1%
- **50. 1,2,3-Trichloropropane** < **0.1%**
- 51. 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich < 0.1%
- 52. 2,2'-dichloro-4,4'-methylenedianiline < 0.1%
- 53. Lead styphnate < 0.1%
- 54. Dichromium tris(chromate) < 0.1%
- 55. Phenolphthalein < 0.1%
- 56. Lead diazide, Lead azide < 0.1%
- 57. 4-(1,1,3,3-tetramethylbutyl)phenol < 0.1%
- 58. Bis(2-methoxyethyl) ether < 0.1%
- 59. Formaldehyde, oligomeric reaction products with aniline < 0.1%
- 60. Pentazinc chromate octahydroxide < 0.1%
- 61. 1,2-dichloroethane < 0.1%
- 62. Trilead diarsenate < 0.1%
- 63. 2-Methoxyaniline; o-Anisidine < 0.1%
- 64. Arsenic acid < 0.1%
- 65. N,N-dimethylacetamide < 0.1%
- 66. Lead dipicrate < 0.1%
- 67. Potassium hydroxyoctaoxodizincatedichromate < 0.1%
- 68. Aluminosilicate Refractory Ceramic Fibres < 0.1%

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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight 69. Bis(2-methoxyethyl) phthalate < 0.1%

- 70. Calcium arsenate < 0.1%
- 71. Zirconia Aluminosilicate Refractory Ceramic Fibres < 0.1%

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- 72. 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) < 0.1%
- 73. 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) < 0.1%
- 74. [4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with  $\geq 0.1\%$  of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] < 0.1%
- 75. 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) < 0.1%
- 76. [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) [with  $\geq$  0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]< 0.1%
- **77. Formamide < 0.1%**
- 78. Lead(II) bis(methanesulfonate) < 0.1%
- 79. 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with  $\geq 0.1\%$  of Michler's ketone (ECNo. 202-027-5) or Michler's base (EC No. 202-959-2)]< 0.1%
- 80. 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) < 0.1%
- 81. Diboron trioxide < 0.1%
- 82. 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione(β-TGIC)<0.1%
- 83. N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) < 0.1%
- 84.  $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with  $\geq 0.1\%$  of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]<0.1%
- 85. Pyrochlore, antimony lead yellow < 0.1%
- 86. 6-methoxy-m-toluidine (p-cresidine) (2-Methoxy-5-methylaniline) < 0.1%
- 87. Hexahydromethylphthalic anhydride , Hexahydro-4-methylphthalic anhydride , Hexahydro-1-methylphthalic anhydride , Hexahydro-3-methylphthalic anhydride < 0.1%
- 88. Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride HHPA) < 0.1%
- 89. Dibutyltin dichloride (DBTC) < 0.1%
- 90. Lead bis(tetrafluoroborate) < 0.1%
- 91. Lead dinitrate < 0.1%
- 92. Silicic acid, lead salt < 0.1%
- 93. 4-Aminoazobenzene < 0.1%
- 94. Lead titanium zirconium oxide < 0.1%

- 95. Lead monoxide (lead oxide) < 0.1%
- 96. o-Toluidine < 0.1%
- 97. 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine < 0.1%
- 98. Silicic acid (H2Si2O5), barium salt (1:1), lead-doped < 0.1%

[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]

- 99. Trilead bis(carbonate)dihydroxide < 0.1%
- 100. Furan < 0.1%
- 101. N,N-dimethylformamide < 0.1%
- 102. 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated < 0.1%

[covering well-defined substances and UVCB substances, polymers and homologues]

103. 4-Nonylphenol, branched and linear < 0.1%

[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]

- 104. 4,4'-methylenedi-o-toluidine < 0.1%
- 105. Diethyl sulphate < 0.1%
- 106. Dimethyl sulphate < 0.1%
- 107. Lead oxide sulfate < 0.1%
- 108. Lead titanium trioxide < 0.1%
- 109. Acetic acid, lead salt, basic < 0.1%
- 110. [Phthalato(2-)]dioxotrilead < 0.1%
- 111. Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) < 0.1%
- 112. N-methylacetamide < 0.1%
- 113. Dinoseb (6-sec-butyl-2,4-dinitrophenol) < 0.1%
- 114. 1,2-Diethoxyethane < 0.1%
- 115. Tetralead trioxide sulphate < 0.1%
- 116. N-pentyl-isopentylphthalate < 0.1%
- 117. Dioxobis(stearato)trilead < 0.1%
- 118. Tetraethyllead < 0.1%
- 119. Pentalead tetraoxide sulphate < 0.1%
- 120. Pentacosafluorotridecanoic acid < 0.1%
- 121. Tricosafluorododecanoic acid < 0.1%
- 122. Henicosafluoroundecanoic acid < 0.1%
- 123. Heptacosafluorotetradecanoic acid < 0.1%
- 124. 1-bromopropane (n-propyl bromide) < 0.1%
- 125. Methoxyacetic acid < 0.1%
- 126. 4-methyl-m-phenylenediamine (toluene-2,4-diamine) < 0.1%
- 127. Methyloxirane (Propylene oxide) < 0.1%
- 128. Trilead dioxide phosphonate < 0.1%

- 129. o-aminoazotoluene < 0.1%
- 130. 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear < 0.1%
- 131. 4,4'-oxydianiline and its salts < 0.1%
- 132. Orange lead (lead tetroxide) < 0.1%
- 133. Biphenyl-4-ylamine < 0.1%
- 134. Diisopentylphthalate(DIPP) < 0.1%
- 135. Fatty acids, C16-18, lead salts < 0.1%
- 136. Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) < 0.1%
- 137. Sulfurous acid, lead salt, dibasic < 0.1%
- 138. Lead cyanamidate < 0.1%
- 139. Cadmium < 0.1%
- **140.** Cadmium oxide < **0.1%**
- 141. Ammonium pentadecafluorooctanoate (APFO) < 0.1%
- 142. Pentadecafluorooctanoic acid (PFOA) < 0.1%
- 143. Dipentyl phthalate (DPP) < 0.1%
- 144. 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] <0.1%
- 145. Cadmium sulphide<0.1%
- 146. Dihexyl phthalate<0.1%
- 147. Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) < 0.1%
- 148. 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)<0.1%
- 149. Imidazolidine-2-thione; (2-imidazoline-2-thiol) < 0.1%
- 150. Lead di(acetate) < 0.1%
- 151. Trixylyl phosphate<0.1%
- 152. 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear<0.1%
- 153. Cadmium chloride<0.1%
- 154. Sodium peroxometaborate<0.1%
- 155. Sodium perborate; perboric acid, sodium salt<0.1%
- 156. Bis(2-ethylhexyl) phthalate (DEHP) <0.1%
- 157. Cadmium fluoride<0.1%
- 158. Cadmium sulphate<0.1%
- 159. Dibutyl phthalate (DBP) <0.1%
- 160. Diisobutyl phthalate (DIBP) < 0.1%
- 161. Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl
- $10\text{-ethyl-4-}[[2\text{-}[(2\text{-ethylhexyl})\text{oxy}]\text{-}2\text{-}oxoethyl]\text{thio}]\text{-}4\text{-}octyl\text{-}7\text{-}oxo\text{-}8\text{-}oxa\text{-}3,}5\text{-}dithia\text{-}4\text{-}stannatetradecanoate} \\ \text{(reaction mass of DOTE and MOTE)} < 0.1\%$
- 162. 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and

- hexyl and octyl diesters with  $\geq 0.3\%$  of dihexyl phthalate<0.1%
- 163. 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]<0.1%
- 164. Nitrobenzene
- 165. 2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol (UV-327)
- 166. 2-(2H-benzotriazol-2-yl)-4-(tert- butyl)-6-(sec-butyl)phenol (UV- 350)
- 167. 1,3-propanesultone
- 168. Perfluorononan-1-oic-acid and its sodium and ammonium salts
- 169. Benzo[def]chrysene
- 170. p-(1,1-dimethylpropyl)phenol
- 171. Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts
- 172. 4-heptylphenol, branched and linear
- 173. 4,4'-isopropylidenediphenol
- 174. Perfluorohexane-1-sulphonic acid and its salts
- 175. 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-HPbl)
- 176. Chrysene
- 177. Cadmium nitrate
- 178. Cadmium hydroxide
- 179. Cadmium carbonate
- 180. Benz[a]anthracene
- 181. 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" )
- 182. Terphenyl, hydrogenated
- 183. Octamethylcyclotetrasiloxane
- 184. Lead
- 185. Ethylenediamine
- 186. Dodecamethylcyclohexasiloxane
- 187. Disodium octaborate
- 188. Dicyclohexyl phthalate
- 189. Decamethylcyclopentasiloxane

- 190. Benzo[ghi]perylene
- 191. Benzene-1,2,4-tricarboxylic acid 1,2 anhydride
- 192. Pyrene
- 193. Phenanthrene
- 194. Fluoranthene
- 195. Benzo[k]fluoranthene
- 196. 2,2-bis(4'-hydroxyphenyl)-4-methylpentane
- 197. 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC
- 198. 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides
- 199. 2-methoxyethyl acetate
- 200. 4-tert-butylphenol
- 201. Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with  $\geq$  0.1% w/w of 4-nonylphenol, branched and linear (4-NP)
- 202. 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone
- 203. 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
- 204. Diisohexyl phthalate
- 205. Perfluorobutane sulfonic acid (PFBS) and its salts
- 206. 1-vinylimidazole
- 207. 2-methylimidazole
- 208. Butyl 4-hydroxybenzoate
- 209. Dibutylbis(pentane-2,4-dionato-O,O')tin
- 210. Bis(2-(2-methoxyethoxy)ethyl)ether
- 211. Dioctyltin 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
- 212. 1,4-dioxane
- 213. 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)
- 214. 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers
- 215. 4,4'-(1-methylpropylidene)bisphenol
- 216. glutaral

- 217. 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
- 218. Orthoboric acid, sodium salt (group)
- 219. Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)
- 220. (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)
- 221. 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
- 222. S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate
- 223. tris(2-methoxyethoxy) vinylsilane
- 224. N-(hydroxymethyl)acrylamide
- 225. 1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]
- 226. 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol
- 227. 4,4'-sulphonyldiphenol
- 228. Barium diboron tetraoxide
- ${\bf 229.\ bis (2-ethylhexyl)\ tetra bromoph thalate\ covering\ any\ of\ the\ individual\ isomers\ and/or\ combinations\ thereof}$
- 230. Isobutyl 4-hydroxybenzoate
- 231. Melamine
- 232. Perfluoroheptanoic acid and its salts
- 233. reaction mass of 2,2,3,3,5,5,6,6-octafluoro

Signature:

Charles Bicheford

Title:

**Ouality Assurance** 

Date:

2023-01-11