



Le Versoud : 2022/01/20

Dear customer,

PHT checked the presence of these extremely alarming substances (SVHC) in the raw materials which it uses for the manufacture of these articles, by enforcement of article 57 of REACH.

It can conclude from it that the substances, mentioned in the list below, are not present in its products manufactured.

PHT will ensure the follow-up of all the other publications of the European Agency of the Chemicals, and will inform its customers via his Internet site. www.pht-plast.fr

Remaining at your disposal for all additional information.

Best regards.

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Plastiques Hautes Technologies

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REACH DECLARATION

extremely alarming substances (SVHC) of article 57 of REACH
At the date of: 2022-01-17

| <u>Name</u> | <u>EC no.</u> | <u>CAS no.</u> | <u>Date of inclusion</u> | <u>Intrinsic property(ies) referred to in Article 57</u> | <u>Decision</u> |
|---|---------------|----------------|--------------------------|--|--|
| <u>tris(2-methoxyethoxy)vinylsilane</u> | 213-934-0 | 1067-53-4 | 17/01/2022 | Toxic for reproduction (Article 57c) | <u>D(2021)10043-DC</u> |
| <u>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</u> X4261 | 401-850-9 | 255881-94-8 | 17/01/2022 | PBT (Article 57d) | <u>D(2021)10043-DC</u> |
| <u>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol</u> | 204-327-1 | 119-47-1 | 17/01/2022 | Toxic for reproduction (Article 57c) | |
| <u>(±)-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)</u> <u>(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one</u> EC No.: - CAS No.: 1782069-81-1 <u>(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one</u> EC No.: - CAS No.: 95342-41-9 <u>(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one</u> EC No.: - CAS No.: 852541-25-4 <u>(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one</u> EC No.: 253-242-6 CAS No.: 36861-47-9 | - | - | 17/01/2022 | Endocrine disrupting properties (Article 57(f) - human health) | <u>D(2021)10043-DC</u> |

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| <p>(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: - CAS No.: 741687-98-9</p> <p>(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: - CAS No.: 852541-30-1</p> <p>(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: - CAS No.: 852541-21-0</p> | | | | | |
| <p>Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)</p> <p>Phenol, 4-dodecyl, branched EC No.: - CAS No.: 210555-94-5</p> <p>4-isododecylphenol EC No.: - CAS No.: 27459-10-5</p> <p>Phenol, 4-isododecyl- EC No.: - CAS No.: 27147-75-7</p> <p>Phenol, dodecyl-, branched EC No.: 310-154-3 CAS No.: 121158-58-5</p> <p>Phenol, (tetrapropenyl) derivatives EC No.: - CAS No.: 74499-35-7</p> <p>Phenol, tetrapropylene- EC No.: - CAS No.: 57427-55-1</p> | - | - | 08/07/2021 | <p>Toxic for reproduction (Article 57c)</p> <p>Endocrine disrupting properties (Article 57(f) - environment)</p> <p>Endocrine disrupting properties (Article 57(f) - human health)</p> | <p>D(2021)456</p> <p>9-DC</p> |

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| <p>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</p> <p>Alkanes, C14-16, chloro EC No.: - CAS No.: 1372804-76-6</p> <p>Alkanes, C14-17, chloro EC No.: 287-477-0 CAS No.: 85535-85-9</p> <p>di-, tri- and tetrachlorotetradecane EC No.: 950-299-5 CAS No.: -</p> <p>Tetradecane, chloro derivs. EC No.: - CAS No.: 198840-65-2</p> | - | - | 08/07/2021 | PBT (Article 57d) vPvB (Article 57e) | D(2021)456 9-DC |
| <p>orthoboric acid, sodium salt boric acid (H3BO3), sodium salt, hydrate EC No.: - CAS No.: 25747-83-5</p> <p>Boric acid (H3BO3), disodium salt EC No.: - CAS No.: 22454-04-2</p> <p>Trisodium orthoborate EC No.: 238-253-6 CAS No.: 14312-40-4</p> <p>Boric acid, sodium salt EC No.: 215-604-1 CAS No.: 1333-73-9</p> <p>Orthoboric acid, sodium salt EC No.: 237-560-2 CAS No.: 13840-56-7</p> <p>Boric acid (H3BO3), sodium salt (1:1) EC No.: - CAS No.: 14890-53-0</p> | - | - | 08/07/2021 | Toxic for reproduction (Article 57c) | D(2021)456 9-DC |

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|---|-----------|----------|------------|--|--|
| glutaral | 203-856-5 | 111-30-8 | 08/07/2021 | Respiratory sensitising properties (Article 57(f) - human health) | D(2021)456 9-DC |
| 4,4'-(1-methylpropylidene)bisphenol | 201-025-1 | 77-40-7 | 08/07/2021 | Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health) | D(2021)456 9-DC |
| 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers (2R)-3-(4-tert-butylphenyl)-2-methylpropanal EC No.: - CAS No.: 75166-31-3 2-(4-tert-butylbenzyl)propionaldehyde EC No.: 201-289-8 CAS No.: 80-54-6 (2S)-3-(4-tert-butylphenyl)-2-methylpropanal EC No.: - CAS No.: 75166-30-2 | - | - | 08/07/2021 | Toxic for reproduction (Article 57c) | D(2021)456 9-DC.pdf |
| 1,4-dioxane | 204-661-8 | 123-91-1 | 08/07/2021 | Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | D(2021)456 9-DC |
| 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) 2,2-dimethylpropan-1-ol, tribromo derivative | - | - | 08/07/2021 | Carcinogenic (Article 57a) | D(2021)456 9-DC |

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|---|-----------|-------------|------------|--|------------------------------------|
| <p>(TBNPA) EC No.: 253-057-0 CAS No.: 36483-57-5</p> <p>3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) EC No.: - CAS No.: 1522-92-5</p> <p>2,2-bis(bromomethyl)propane-1,3-diol (BMP) EC No.: 221-967-7 CAS No.: 3296-90-0</p> <p>2,3-dibromo-1-propanol (2,3-DBPA) EC No.: 202-480-9 CAS No.: 96-13-9</p> | | | | | |
| <p>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</p> <p>Dioctyltin dilaurate EC No.: 222-883-3 CAS No.: 3648-18-8</p> <p>dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. EC No.: - CAS No.: -</p> <p>Stannane, dioctyl-, bis(coco acyloxy) derivs. EC No.: 293-901-5 CAS No.: 91648-39-4</p> | - | - | 19/01/2021 | Toxic for reproduction (Article 57c) | D(2020)913 9-DC |
| <p>Bis(2-(2-methoxyethoxy)ethyl)ether</p> | 205-594-7 | 143-24-8 | 19/01/2021 | Toxic for reproduction (Article 57c) | D(2020)913 9-DC |
| <p>Dibutylbis(pentane-2,4-dionato-O,O')tin</p> | 245-152-0 | 22673-19-4 | 25/06/2020 | Toxic for reproduction (Article 57c) | D(2020)457 8-DC |
| <p>Butyl 4-hydroxybenzoate</p> | 202-318-7 | 94-26-8 | 25/06/2020 | Endocrine disrupting properties (Article 57(f) - human health) | D(2020)457 8-DC |
| <p>2-methylimidazole</p> | 211-765-7 | 693-98-1 | 25/06/2020 | Toxic for reproduction (Article 57c) | D(2020)457 8-DC |
| <p>1-vinylimidazole</p> | 214-012-0 | 1072-63-5 | 25/06/2020 | Toxic for reproduction (Article 57c) | D(2020)457 8-DC |
| <p>Perfluorobutane sulfonic acid (PFBS) and its salts</p> | - | - | 16/01/2020 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) | ECHA_01_2 020 |
| <p>Diisohexyl phthalate</p> | 276-090-2 | 71850-09-4 | 16/01/2020 | Toxic for reproduction (Article 57c) | ECHA_01_2 020 |
| <p>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</p> | 400-600-6 | 71868-10-5 | 16/01/2020 | Toxic for reproduction (Article 57c) | ECHA_01_2 020 |
| <p>2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone</p> | 404-360-3 | 119313-12-1 | 16/01/2020 | Toxic for reproduction (Article 57c) | ECHA_01_2 020 |
| <p>3-benzylidene camphor; 3-BC</p> | 239-139-9 | 15087-24-8 | 15/01/2019 | Endocrine disrupting properties (Article 57(f) - environment) | |

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| 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 401-720-1 | 6807-17-6 | 15/01/2019 | Toxic for reproduction (Article 57c) |
| Benzo[k]fluoranthene | 205-916-6 | 207-08-9 | 15/01/2019 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) |
| Fluoranthene | 205-912-4 | 206-44-0; 93951-69-0 | 15/01/2019 | PBT (Article 57d) vPvB (Article 57e) |
| Phenanthrene | 201-581-5 | 85-01-8 | 15/01/2019 | vPvB (Article 57e) |
| Pyrene | 204-927-3 | 129-00-0; 1718-52-1 | 15/01/2019 | PBT (Article 57d) vPvB (Article 57e) |
| 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) |
| Benzo[ghi]perylene | 205-883-8 | 191-24-2 | 27/06/2018 | PBT (Article 57d) vPvB (Article 57e) |
| Decamethylcyclopentasiloxane D5 | 208-764-9 | 541-02-6 | 27/06/2018 | PBT (Article 57d) vPvB (Article 57e) |
| 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) |
| Disodium octaborate | 234-541-0 | 12008-41-2 | 27/06/2018 | Toxic for reproduction (Article 57c) |
| Dodecamethylcyclohexasiloxane D6 | 208-762-8 | 540-97-6 | 27/06/2018 | PBT (Article 57d) vPvB (Article 57e) |
| Ethylenediamine EDA | 203-468-6 | 107-15-3 | 27/06/2018 | Respiratory sensitising properties (Article 57(f) - human health) |
| Lead | 231-100-4 | 7439-92-1 | 27/06/2018 | Toxic for reproduction (Article 57c) |
| Octamethylcyclotetrasiloxane D4 | 209-136-7 | 556-67-2 | 27/06/2018 | PBT (Article 57d) vPvB (Article 57e) |
| Terphenyl, hydrogenated | 262-967-7 | 61788-32-7 | 27/06/2018 | vPvB (Article 57e) |

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| Benz[a]anthracene | 200-280-6 | 56-55-3, 1718-53-2 | 15/01/2018 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) | ED 01/2018 |
| 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) | ED 01/2018 |
| Cadmium hydroxide | 244-168-5 | 21041-95-2 | 15/01/2018 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | ED 01/2018 |
| Cadmium nitrate | 233-710-6 | 10022-68-1, 10325-94-7 | 15/01/2018 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) | ED 01/2018 |
| Chrysene | 205-923-4 | 218-01-9, 1719-03-5 | 15/01/2018 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) | ED 01/2018 |
| 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 | - | - | 15/01/2018 | vPvB (Article 57e) | ED 01/2018 |
| 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) | ED 01/2018 |

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| with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl) | | | | | |
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Perfluorohexane-1-sulphonic acid and its salts - - 07/07/2017 vPvB (Article 57e) ED/30/2017
PFHxS

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| <u>4,4'-isopropylidenediphenol</u> Bisphenol A; BPA | 201-245-8 | 80-05-7 | 12/01/2017 | Toxic for reproduction (Article 57c) | ED/01/2017 |
| <u>4-heptylphenol, branched and linear</u> 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 | - | - | 12/01/2017 | Equivalent level of concern having probable serious effects to environment (Article 57 f) | ED/01/2017 |
| <u>Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts</u> show/hide <u>Nonadecafluorodecanoic acid</u> EC no.: 206-400-3 CAS no.: 335-76-2 <u>Decanoic acid, nonadecafluoro-, sodium salt</u> EC no.: - CAS no.: 3830-45-3 <u>Ammonium nonadecafluorodecanoate</u> EC no.: 221-470-5 CAS no.: 3108-42-7 | - | - | 12/01/2017 | Toxic for reproduction (Article 57c) PBT (Article 57 d) | ED/01/2017 |
| <u>p-(1,1-dimethylpropyl)phenol</u> | 201-280-9 | 80-46-6 | 12/01/2017 | Equivalent level of concern having probable serious effects to environment (Article 57 f) | ED/01/2017 |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 223-346-6 | 3846-71-7 | 2014/12/17 | PBT (Article 57 d); vPvB (Article 57 e) | ED/108/2014 |
| 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 239-622-4 | 15571-58-1 | 2014/12/17 | Toxic for reproduction (Article 57 c) | ED/108/2014 |
| 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) | - | - | 2014/12/17 | Toxic for reproduction (Article 57 c) | ED/108/2014 |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 247-384-8 | 25973-55-1 | 2014/12/17 | PBT (Article 57 d); vPvB (Article 57 e) | ED/108/2014 |
| Cadmium fluoride | 232-222-0 | 7790-79-6 | 2014/12/17 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f) | ED/108/2014 |

| Substance Name | EC Number | CAS Number | Date of inclusion | Reason for inclusion | Décision numéro |
|---|----------------------|-----------------------|-------------------|--|-----------------|
| Cadmium sulphate | 233-331-6 | 10124-36-4,31119-53-6 | 2014/12/17 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f) | ED/108/2014 |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 271-093-5 | 68515-50-4 | 2014/06/16 | Toxic for reproduction (Article 57 c) | ED/49/2014 |
| Sodium perborate; perboric acid, sodium salt | 239-172-9; 234-390-0 | - | 2014/06/16 | Toxic for reproduction (Article 57 c) | ED/49/2014 |
| Sodium peroxometaborate | 231-556-4 | 7632-04-4 | 2014/06/16 | Toxic for reproduction (Article 57 c) | ED/49/2014 |
| Cadmium chloride | 233-296-7 | 10108-64-2 | 2014/06/16 | 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) | ED/49/2014 |
| Cadmium sulphide | 215-147-8 | 1306-23-6 | 2013/12/16 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f) | ED/121/2013 |
| Trixylyl phosphate | 246-677-8 | 25155-23-1 | 2013/12/16 | Toxic for reproduction (Article 57 c); | ED/121/2013 |
| 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 | 2013/12/16 | Carcinogenic (Article 57a); | ED/121/2013 |
| Dihexyl phthalate | 201-559-5 | 84-75-3 | 2013/12/16 | Toxic for reproduction (Article 57 c); | ED/121/2013 |
| 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 | 2013/12/16 | Carcinogenic (Article 57a); | ED/121/2013 |
| Lead di(acetate) | 206-104-4 | 301-04-2 | 2013/12/16 | Toxic for reproduction (Article 57 c); | ED/121/2013 |
| Imidazolidine-2-thione; (2-imidazoline-2-thiol) | 202-506-9 | 96-45-7 | 2013/12/16 | Toxic for reproduction (Article 57 c); | ED/121/2013 |
| Cadmium | 231-152-8 | 7440-43-9 | 2013/06/20 | Carcinogenic (Article 57a); | ED/69/2013 |

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| Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 3825-26-1 | 2013/06/20 | Equivalent level of concern having probable serious effects to human health (Article 57 f) | |
| Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 335-67-1 | 2013/06/20 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) | ED/69/2013 |
| Dipentyl phthalate (DPP) | 205-017-9 | 131-18-0 | 2013/06/20 | Toxic for reproduction (Article 57 c); | ED/69/2013 |
| 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] | | | 2013/06/20 | Equivalent level of concern having probable serious effects to the environment (Article 57 f) | ED/69/2013 |
| Cadmium oxide | 215-146-2 | 1306-19-0 | 2013/06/20 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f) | ED/69/2013 |

| Substance Name | EC Number | CAS Number | Date of inclusion | Reason for inclusion | Decision number |
|--|---|---|-------------------|--|-----------------|
| Pyrochlore, antimony lead yellow | 232-382-1 | 8012-00-8 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 6-methoxy-m-toluidine (p-cresidine) | 204-419-1 | 120-71-8 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| Henicosafleuroundecanoic acid | 218-165-4 | 2058-94-8 | 2012/12/19 | vPvB (Article 57 e) | ED/169/2012 |
| Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 2012/12/19 | Equivalent level of concern having probable serious effects to human health (Article 57 f) | ED/169/2012 |
| Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible | 201-604-9, 236-086-3, 238-009-9 | 85-42-7, 13149-00-3, | 2012/12/19 | Equivalent level of concern having probable serious | ED/169/2012 |

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| <i>combinations of the cis- and trans-isomers [1] are covered by this entry]</i> | | 14166-21-3 | | effects to human health (Article 57 f) | |
| Dibutyltin dichloride (DBTC) | 211-670-0 | 683-18-1 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead bis(tetrafluoroborate) | 237-486-0 | 13814-96-5 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead dinitrate | 233-245-9 | 10099-74-8 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Silicic acid, lead salt | 234-363-3 | 11120-22-2 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 4-Aminoazobenzene | 200-453-6 | 60-09-3 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| Lead titanium zirconium oxide | 235-727-4 | 12626-81-2 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead monoxide (lead oxide) | 215-267-0 | 1317-36-8 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| o-Toluidine | 202-429-0 | 95-53-4 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 143860-04-2 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 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 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Trilead bis(carbonate)dihydroxide | 215-290-6 | 1319-46-6 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Furan | 203-727-3 | 110-00-9 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| N,N-dimethylformamide | 200-679-5 | 68-12-2 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] | - | - | 2012/12/19 | Equivalent level of concern having probable serious effects to the environment (Article 57 f) | ED/169/2012 |
| 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] | - | - | 2012/12/19 | Equivalent level of concern having probable serious effects to the environment (Article 57 f) | ED/169/2012 |
| 4,4'-methylenedi-o-toluidine | 212-658-8 | 838-88-0 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| Diethyl sulphate | 200-589-6 | 64-67-5 | 2012/12/19 | Carcinogenic (Article 57a); Mutagenic (Article 57b) | ED/169/2012 |

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|--|-----------|-------------|------------|---|-------------|
| Dimethyl sulphate | 201-058-1 | 77-78-1 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| Lead oxide sulfate | 234-853-7 | 12036-76-9 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead titanium trioxide | 235-038-9 | 12060-00-3 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Acetic acid, lead salt, basic | 257-175-3 | 51404-69-4 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| [Phthalato(2-)]dioxotrilead | 273-688-5 | 69011-06-9 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) | 214-604-9 | 1163-19-5 | 2012/12/19 | PBT (Article 57 d); vPvB (Article 57 e) | ED/169/2012 |
| N-methylacetamide | 201-182-6 | 79-16-3 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 88-85-7 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 1,2-Diethoxyethane | 211-076-1 | 629-14-1 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Tetralead trioxide sulphate | 235-380-9 | 12202-17-4 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| N-pentyl-isopentylphthalate | - | 776297-69-9 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Dioxobis(stearato)trilead | 235-702-8 | 12578-12-0 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Tetraethyllead | 201-075-4 | 78-00-2 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Pentalead tetraoxide sulphate | 235-067-7 | 12065-90-6 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Pentacosafuorotridecanoic acid | 276-745-2 | 72629-94-8 | 2012/12/19 | vPvB (Article 57 e) | ED/169/2012 |
| Tricosafuorododecanoic acid | 206-203-2 | 307-55-1 | 2012/12/19 | vPvB (Article 57 e) | ED/169/2012 |
| Heptacosafuorotetradecanoic acid | 206-803-4 | 376-06-7 | 2012/12/19 | vPvB (Article 57 e) | ED/169/2012 |
| 1-bromopropane (n-propyl bromide) | 203-445-0 | 106-94-5 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Methoxyacetic acid | 210-894-6 | 625-45-6 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 202-453-1 | 95-80-7 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| Methyloxirane (Propylene oxide) | 200-879-2 | 75-56-9 | 2012/12/19 | Carcinogenic (Article 57a); Mutagenic (Article 57b) | ED/169/2012 |

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|--|-----------|------------|------------|--|-------------|
| Trilead dioxide phosphonate | 235-252-2 | 12141-20-7 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| o-aminoazotoluene | 202-591-2 | 97-56-3 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 284-032-2 | 84777-06-0 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 4,4'-oxydianiline and its salts | 202-977-0 | 101-80-4 | 2012/12/19 | Carcinogenic (Article 57a); Mutagenic (Article 57b) | ED/169/2012 |
| Orange lead (lead tetroxide) | 215-235-6 | 1314-41-6 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Biphenyl-4-ylamine | 202-177-1 | 92-67-1 | 2012/12/19 | Carcinogenic (Article 57a) | ED/169/2012 |
| Diisopentylphthalate | 210-088-4 | 605-50-5 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Fatty acids, C16-18, lead salts | 292-966-7 | 91031-62-8 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 204-650-8 | 123-77-3 | 2012/12/19 | Equivalent level of concern having probable serious effects to human health (Article 57 f) | ED/169/2012 |
| Sulfurous acid, lead salt, dibasic | 263-467-1 | 62229-08-7 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead cyanamidate | 244-073-9 | 20837-86-9 | 2012/12/19 | Toxic for reproduction (Article 57 c) | ED/169/2012 |

| Substance Name | EC Number | CAS Number | Date of inclusion | Reason for inclusion | Decision number |
|--|-----------|------------|-------------------|---------------------------------------|-----------------|
| α,α -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)] | 229-851-8 | 6786-83-0 | 2012/06/18 | Carcinogenic (Article 57a) | ED/87/2012 |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 101-61-1 | 2012/06/18 | Carcinogenic (Article 57a) | ED/87/2012 |
| 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 | 2012/06/18 | Mutagenic (Article 57b) | ED/87/2012 |
| Diboron trioxide | 215-125-8 | 1303-86-2 | 2012/06/18 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 203-977-3 | 112-49-2 | 2012/06/18 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 209-218-2 | 561-41-1 | 2012/06/18 | Carcinogenic (Article 57a) | ED/87/2012 |

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|---|-----------|------------|------------|---|------------|
| Lead(II) bis(methanesulfonate) | 401-750-5 | 17570-76-2 | 2012/06/18 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| Formamide | 200-842-0 | 75-12-7 | 2012/06/18 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| [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 | 2012/06/18 | Carcinogenic (Article 57a) | ED/87/2012 |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 | 2012/06/18 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| [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 | 2012/06/18 | Carcinogenic (Article 57a) | ED/87/2012 |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 219-514-3 | 2451-62-9 | 2012/06/18 | Mutagenic (Article 57b) | ED/87/2012 |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 | 2012/06/18 | Carcinogenic (Article 57a) | ED/87/2012 |
| Bis(2-methoxyethyl) phthalate | 204-212-6 | 117-82-8 | 2011/12/19 | Toxic for reproduction (article 57 c) | ED/77/2011 |
| 4-(1,1,3,3-tetramethylbutyl)phenol | 205-426-2 | 140-66-9 | 2011/12/19 | Equivalent level of concern having probable serious effects to the environment (article 57 f) | ED/77/2011 |
| Lead diazide, Lead azide | 236-542-1 | 13424-46-9 | 2011/12/19 | Toxic for reproduction (article 57 c), | ED/77/2011 |
| Phenolphthalein | 201-004-7 | 77-09-8 | 2011/12/19 | Carcinogenic (article 57 a) | ED/77/2011 |
| Dichromium tris(chromate) | 246-356-2 | 24613-89-6 | 2011/12/19 | Carcinogenic (article 57 a) | ED/77/2011 |
| Lead styphnate | 239-290-0 | 15245-44-0 | 2011/12/19 | Toxic for reproduction (article 57 c) | ED/77/2011 |
| 2,2'-dichloro-4,4'-methylenedianiline | 202-918-9 | 101-14-4 | 2011/12/19 | Carcinogenic (article 57 a) | ED/77/2011 |

| Substance name | EC No. | CAS No. | Date inclusion | Decision No. |
|---|-----------|------------|----------------|--------------|
| Chromic acid, | 231-801-5 | 7738-94-5 | 15.12.2010 | ED/95/2010 |
| Oligomers of chromic acid and dichromic acid, | - | - | | |
| Dichromic acid | 236-881-5 | 13530-68-2 | | |
| Chromium trioxide | 215-607-8 | 1333-82-0 | 15.12.2010 | ED/95/2010 |
| 2-Ethoxyethanol | 203-804-1 | 110-80-5 | 15.12.2010 | ED/95/2010 |
| 2-Methoxyethanol | 203-713-7 | 109-86-4 | 15.12.2010 | ED/95/2010 |
| Cobalt(II) diacetate | 200-755-8 | 71-48-7 | 15.12.2010 | ED/95/2010 |

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|--|-----------------------|---------------------------------------|------------|------------|
| Cobalt(II) carbonate | 208-169-4 | 513-79-1 | 15.12.2010 | ED/95/2010 |
| Cobalt(II) dinitrate | 233-402-1 | 10141-05-6 | 15.12.2010 | ED/95/2010 |
| Cobalt(II) sulphate | 233-334-2 | 10124-43-3 | 15.12.2010 | ED/95/2010 |
| Sodium chromate | 231-889-5 | 03/11/75 | 18.06.2010 | ED/30/2010 |
| Potassium chromate | 232-140-5 | 7789-00-6 | 18.06.2010 | ED/30/2010 |
| Ammonium dichromate | 232-143-1 | 05/09/89 | 18.06.2010 | ED/30/2010 |
| Potassium dichromate | 231-906-6 | 7778-50-9 | 18.06.2010 | ED/30/2010 |
| Tetraboron disodium heptaoxide, hydrate | 235-541-3 | 12267-73-1 | 18.06.2010 | ED/30/2010 |
| Disodium tetraborate, anhydrous | 215-540-4 | 1303-96-4/ 1330-43-4/ 12179-04-3 | 18.06.2010 | ED/30/2010 |
| Boric acid | 233-139-2 / 234-343-4 | 10043-35-3 / 11113-50-1 | 18.06.2010 | ED/30/2010 |
| Trichloroethylene | 201-167-4 | 79-01-6 | 18.06.2010 | ED/30/2010 |
| Acrylamide | 201-173-7 | 79-06-1 | 30.03.2010 | ED/68/2009 |
| Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 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 two following conditions: | - | Extracted from Index no. 650-017-00-8 | 13.01.2010 | ED/68/2009 |
| a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following concentration ranges: | | | | |
| Al ₂ O ₃ : 35 – 36 % w/w, and | | | | |
| SiO ₂ : 47.5 – 50 % w/w, and | | | | |
| ZrO ₂ : 15 - 17 % w/w, | | | | |
| b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). | | | | |
| Tris(2-chloroethyl)phosphate | 204-118-5 | 115-96-8 | 13.01.2010 | ED/68/2009 |
| Pitch, coal tar, high temp. | 266-028-2 | 65996-93-2 | 13.01.2010 | ED/68/2009 |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 215-693-7 | 1344-37-2 | 13.01.2010 | ED/68/2009 |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 235-759-9 | 12656-85-8 | 13.01.2010 | ED/68/2009 |
| Lead chromate | 231-846-0 | 7758-97-6 | 13.01.2010 | ED/68/2009 |
| Diisobutyl phthalate | 201-553-2 | 84-69-5 | 13.01.2010 | ED/68/2009 |

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|--|-------------------------|--|------------|------------|
| Anthracene oil, anthracene paste, distn. lights | 295-278-5 | 91995-17-4 | 13.01.2010 | ED/68/2009 |
| Anthracene oil, anthracene paste, anthracene fraction | 295-275-9 | 91995-15-2 | 13.01.2010 | ED/68/2009 |
| Anthracene oil, anthracene paste | 292-603-2 | 90640-81-6 | 13.01.2010 | ED/68/2009 |
| Anthracene oil, anthracene-low | 292-604-8 | 90640-82-7 | 13.01.2010 | ED/68/2009 |
| Anthracene oil | 292-602-7 | 90640-80-5 | 13.01.2010 | ED/68/2009 |
| Aluminosilicate Refractory Ceramic Fibres | - | Extracted from Index no.: 650-017-00-8 | 13.01.2010 | ED/68/2009 |
| <p>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 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 two following conditions:</p> <p>a) Al₂O₃ and SiO₂ are present within the following concentration ranges:</p> <p>Al₂O₃: 43.5 – 47 % w/w, and SiO₂: 49.5 – 53.5 % w/w,</p> <p>or</p> <p>Al₂O₃: 45.5 – 50.5 % w/w, and SiO₂: 48.5 – 54 % w/w,</p> <p>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).</p> | | | | |
| 2,4-Dinitrotoluene | 204-450-0 | 121-14-2 | 13.01.2010 | ED/68/2009 |
| Triethyl arsenate | 427-700-2 | 15606-95-8 | 28.10.2008 | ED/67/2008 |
| Sodium dichromate | 234-190-3 | 7789-12-0/ 10588-01-9 | 28.10.2008 | ED/67/2008 |
| Lead hydrogen arsenate | 232-064-2 | 7784-40-9 | 28.10.2008 | ED/67/2008 |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: | 247-148-4 and 221-695-9 | 25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8) | 28.10.2008 | ED/67/2008 |
| Alpha-hexabromocyclododecane | | (134237-50-6) | | |
| Beta-hexabromocyclododecane | | (134237-51-7) | | |
| Gamma-hexabromocyclododecane | | (134237-52-8) | | |



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| Dibutyl phthalate (DBP) | 201-557-4 | 84-74-2 | 28.10.2008 | ED/67/2008 |
| Diarsenic trioxide | 215-481-4 | 1327-53-3 | 28.10.2008 | ED/67/2008 |
| Diarsenic pentaoxide | 215-116-9 | 1303-28-2 | 28.10.2008 | ED/67/2008 |
| Cobalt dichloride | 231-589-4 | 7646-79-9 | 28.10.2008 | ED/67/2008 |
| Bis(tributyltin)oxide (TBTO) | 200-268-0 | 56-35-9 | 28.10.2008 | ED/67/2008 |
| Bis (2-ethylhexyl)phthalate (DEHP) | 204-211-0 | 117-81-7 | 28.10.2008 | ED/67/2008 |
| Benzyl butyl phthalate (BBP) | 201-622-7 | 85-68-7 | 28.10.2008 | ED/67/2008 |
| Anthracene | 204-371-1 | 120-12-7 | 28.10.2008 | ED/67/2008 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 287-476-5 | 85535-84-8 | 28.10.2008 | ED/67/2008 |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 201-329-4 | 81-15-2 | 28.10.2008 | ED/67/2008 |
| 4,4'- Diaminodiphenylmethane (MDA) | 202-974-4 | 101-77-9 | 28.10.2008 | ED/67/2008 |

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