Domat/Ems, January 20, 2021

The following information applies to our direct customers in the EU:

**Grilamid, Grivory, Grilflex and Grilon are compliant with REACH**

Dear Sir or Madam

With this letter we would like to confirm that our products fully comply with Regulation (EC) No. 1907/2006 (as currently amended), commonly known as "REACH".
We have taken the following actions to achieve REACH-compliance:

1) we have appointed EMS-CHEMIE (Deutschland) GmbH as our only representative
2) our raw material suppliers or their only representatives have registered all affected substances
3) we do not use any substances of very high concern (SVHC) in our products, unless they are explicitly mentioned in the MSDS

Our only representative fulfils the obligations of importers under Article 8 for our products. Grilamid, Grivory, Grilflex and Grilon have the same status as products that are manufactured in the EU.

Since our products Grilamid, Grivory, Grilflex and Grilon are based on polymers which are not subject to registration, the MSDS of our products will not contain any registration numbers (with the exception of hazardous ingredients). Exposure scenarios (ES) are equally not required for our products.

Our suppliers have confirmed that the necessary raw materials will continue to be available under REACH. The suppliers of raw materials

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which we use in quantities > 1 to/a have confirmed their successful registration by the applicable deadlines (depending on the tonnage band) of 30 November 2010, 31 May 2013, or 31 May 2018, respectively. Therefore we can continue to offer you our wide product assortment in the future.

We very much hope to have been of assistance. If you have any questions, please do not hesitate to get in touch with your familiar contacts in Domat/Ems.

EMS-GRIVORY

| Quality Assurance | Regulatory Affairs |
|---|---|
|  |  |
| Dr. Martina Ebert | Dr. Thomas Emerschitz |
| QA EMS-GRIVORY | REACH responsible for EMS-GRIVORY |

Disclaimer:
The information above is accurate to the best of our current knowledge, but given without any guarantee.

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Domat/Ems, January 20, 2021

**Substances of Very High Concern (SVHC)**

Dear Sir or Madam

We can confirm that our products Grilon, Grilamid, Grivory and Grilflex, unless otherwise indicated in the respective MSDS, do not contain any of the SVHC included in the candidate list, which has been published on 19 January 2021, and the authorisation list according to Annex XIV of Regulation (EC) No. 1907/2006 as amended, as intentionally added part of their formulation in concentrations > 0.1 wt.-%.

| Substance name | EC Number | Date of inclusion | Reason for inclusion | Decision number |
|---|---|---|---|---|
| 4,4'- Diaminodiphenylmethane (MDA) | 202-974-4 | 28.10.2008 | Carcinogenic (Article 57 a) | ED/67/2008 |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 201-329-4 | 28.10.2008 | vPvB (Article 57 e) | ED/67/2008 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 287-476-5 | 28.10.2008 | PBT and vPvB (Articles 57 d and 57 e) | ED/67/2008 |
| Anthracene | 204-371-1 | 28.10.2008 | PBT (Article 57 d) | ED/67/2008 |
| Benzyl butyl phthalate (BBP) | 201-622-7 | 28.10.2008 | Toxic for reproduction (Article 57 c)<br>Endocrine disrupting properties (Article 57 f - human health) | ED/67/2008<br>ED/30/2017 |
| Bis (2-ethylhexyl)phthalate (DEHP) | 204-211-0 | 28.10.2008<br>17.12.2014 | Toxic for reproduction (Article 57 c)<br>Endocrine disrupting properties (Article 57 f - environment)<br>Endocrine disrupting properties (Article 57 f - human health) | ED/67/2008<br>ED/108/2014<br>ED/30/2017 |
| Bis(tributyltin)oxide (TBTO) | 200-268-0 | 28.10.2008 | PBT (Article 57 d) | ED/67/2008 |
| Diarsenic pentaoxide | 215-116-9 | 28.10.2008 | Carcinogenic (Article 57 a) | ED/67/2008 |
| Diarsenic trioxide | 215-481-4 | 28.10.2008 | Carcinogenic (Article 57 a) | ED/67/2008 |
| Dibutyl phthalate (DBP) | 201-557-4 | 28.10.2008 | Toxic for reproduction (Article 57 c)<br>Endocrine disrupting properties (Article 57 f - human health) | ED/67/2008<br>ED/30/2017 |

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| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:<br>Alpha-hexabromocyclododecane<br>Beta-hexabromocyclododecane<br>Gamma-hexabromocyclododecane | 247-148-4<br>221-695-9<br>(134237-50-6)<br>(134237-51-7)<br>(134237-52-8) | 28.10.2008 | PBT (Article 57 d) | ED/67/2008 |
| Lead hydrogen arsenate | 232-064-2 | 28.10.2008 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/67/2008 |
| Sodium dichromate | 234-190-3 (7789-12-0 + 10588-01-9) | 28.10.2008 | Carcinogenic, mutagenic and toxic for reproduction (Articles 57 a, 57 b and 57 c) | ED/67/2008 |
| Triethyl arsenate | 427-700-2 | 28.10.2008 | Carcinogenic (Article 57 a) | ED/67/2008 |
| 2,4-Dinitrotoluene | 204-450-0 | 13.01.2010 | Carcinogenic (Article 57 a) | ED/68/2009 |
| Aluminosilicate Refractory Ceramic Fibres<br>*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:*<br>*a) $Al_2O_3$ and $SiO_2$ are present within the following concentration ranges:*<br>*$Al_2O_3$: 43.5 – 47 % w/w, and $SiO_2$: 49.5 – 53.5 % w/w, or*<br>*$Al_2O_3$: 45.5 – 50.5 % w/w, and $SiO_2$: 48.5 – 54 % w/w,*<br>*b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).* | - | 13.01.2010 | Carcinogenic (Article 57 a) | ED/68/2009 |
| Anthracene oil | 292-602-7 | 13.01.2010 | Carcinogenic[1)], PBT and vPvB (Articles 57 a, 57 d and 57 e) | ED/68/2009 |
| Anthracene oil, anthracene-low | 292-604-8 | 13.01.2010 | Carcinogenic[2)], mutagenic[3)], PBT and vPvB (Articles 57 a, 57 b, 57 d and 57 e) | ED/68/2009 |
| Anthracene oil, anthracene paste | 292-603-2 | 13.01.2010 | Carcinogenic[2)], mutagenic[3)], PBT and vPvB (Articles 57 a, 57 b, 57 d and 57 e) | ED/68/2009 |
| Anthracene oil, anthracene paste, anthracene fraction | 295-275-9 | 13.01.2010 | Carcinogenic[2)], mutagenic[3)], PBT and vPvB (Articles 57 a, 57 b, 57 d and 57 e) | ED/68/2009 |
| Anthracene oil, anthracene paste,distn. lights | 295-278-5 | 13.01.2010 | Carcinogenic[2)], mutagenic[3)], PBT and vPvB (Articles 57 a, 57 b, 57 d and 57 e) | ED/68/2009 |
| Diisobutyl phthalate (DIBP) | 201-553-2 | 13.01.2010 | Toxic for reproduction (Article 57 c)<br>Endocrine disrupting properties (Article 57 f - human health) | ED/68/2009<br>ED/30/2017 |
| Lead chromate | 231-846-0 | 13.01.2010 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/68/2009 |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 235-759-9 | 13.01.2010 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/68/2009 |

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| Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 215-693-7 | 13.01.2010 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/68/2009 |
| Pitch, coal tar, high temp. | 266-028-2 | 13.01.2010 | Carcinogenic, PBT and vPvB (Articles 57 a, 57 d and 57 e) | ED/68/2009 |
| Tris(2-chloroethyl)phosphate | 204-118-5 | 13.01.2010 | Toxic for reproduction (Article 57 c) | ED/68/2009 |
| Zirconia Aluminosilicate Refractory Ceramic Fibres<br>*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:*<br>*a) $Al_2O_3$, $SiO_2$ and $ZrO_2$ are present within the following concentration ranges:*<br>*$Al_2O_3$: 35 – 36 % w/w, and*<br>*$SiO_2$: 47.5 – 50 % w/w, and*<br>*$ZrO_2$: 15 - 17 % w/w,*<br>*b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).* | - | 13.01.2010 | Carcinogenic (Article 57 a) | ED/68/2009 |
| Acrylamide | 201-173-7 | 30.03.2010 | Carcinogenic and mutagenic (Articles 57 a and 57 b) | ED/68/2009 |
| Trichloroethylene | 201-167-4 | 18.06.2010 | Carcinogenic (Article 57 a) | ED/30/2010 |
| Boric acid | 233-139-2 / 234-343-4 | 18.06.2010 | Toxic for reproduction (Article 57 c) | ED/30/2010 |
| Disodium tetraborate, anhydrous | 215-540-4 | 18.06.2010 | Toxic for reproduction (Article 57 c) | ED/30/2010 |
| Tetraboron disodium heptaoxide, hydrate | 235-541-3 | 18.06.2010 | Toxic for reproduction (Article 57 c) | ED/30/2010 |
| Potassium dichromate | 231-906-6 | 18.06.2010 | Carcinogenic, mutagenic and toxic for reproduction (Articles 57 a, 57 b and 57 c) | ED/30/2010 |
| Ammonium dichromate | 232-143-1 | 18.06.2010 | Carcinogenic, mutagenic and toxic for reproduction (Articles 57 a, 57 b and 57 c) | ED/30/2010 |
| Potassium chromate | 232-140-5 | 18.06.2010 | Carcinogenic and mutagenic (Articles 57 a and 57 b). | ED/30/2010 |
| Sodium chromate | 231-889-5 | 18.06.2010 | Carcinogenic, mutagenic and toxic for reproduction (Articles 57 a, 57 b and 57 c) | ED/30/2010 |
| Cobalt(II) sulphate | 233-334-2 | 15.12.2010 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/95/2010 |
| Cobalt(II) dinitrate | 233-402-1 | 15.12.2010 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/95/2010 |
| Cobalt(II) carbonate | 208-169-4 | 15.12.2010 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/95/2010 |
| Cobalt(II) diacetate | 200-755-8 | 15.12.2010 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/95/2010 |

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|---|---|---|---|---|
| 2-Methoxyethanol | 203-713-7 | 15.12.2010 | Toxic for reproduction (Article 57 c) | ED/95/2010 |
| 2-Ethoxyethanol | 203-804-1 | 15.12.2010 | Toxic for reproduction (Article 57 c) | ED/95/2010 |
| Chromium trioxide | 215-607-8 | 15.12.2010 | Carcinogenic and mutagenic (Articles 57 a and 57 b) | ED/95/2010 |
| Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid | 231-801-5 - 236-881-5 | 15.12.2010 | Carcinogenic (Article 57 a) | ED/95/2010 |
| 2-Ethoxyethyl acetate | 203-839-2 | 20.06.2011 | Toxic for reproduction (Article 57 c) | ED/31/2011 |
| Strontium chromate | 232-142-6 | 20.06.2011 | Carcinogenic (Article 57 a) | ED/31/2011 |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 271-084-6 | 20.06.2011 | Toxic for reproduction (Article 57 c) | ED/31/2011 |
| Hydrazine | 206-114-9 | 20.06.2011 | Carcinogenic (Article 57 a) | ED/31/2011 |
| 1-Methyl-2-pyrrolidone | 212-828-1 | 20.06.2011 | Toxic for reproduction (Article 57 c) | ED/31/2011 |
| 1,2,3-Trichloropropane | 202-486-1 | 20.06.2011 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/31/2011 |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 276-158-1 | 20.06.2011 | Toxic for reproduction (Article 57 c) | ED/31/2011 |
| Cobalt dichloride | 231-589-4 | 20.06.2011<br>28.10.2008 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/31/2011<br>ED67/2008 |
| Dichromium tris(chromate) | 246-356-2 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Potassium hydroxyoctaoxodizincate-dichromate | 234-329-8 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Aluminosilicate Refractory Ceramic Fibres (RCF)<br>*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* | - | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)<br>*are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight* | - | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |

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| Pentazinc chromate octahydroxide | 256-418-0 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 500-036-1 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Bis(2-methoxyethyl) phthalate | 204-212-6 | 19.12.2011 | Toxic for reproduction (Article 57 c) | ED/77/2011 |
| 2-Methoxyaniline; o-Anisidine | 201-963-1 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| 4-(1,1,3,3-tetramethylbutyl)phenol | 205-426-2 | 19.12.2011 | Endocrine disrupting properties (Article 57 f - environment) | ED/77/2011 |
| 1,2-Dichloroethane | 203-458-1 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Bis(2-methoxyethyl)ether | 203-924-4 | 19.12.2011 | Toxic for reproduction (Article 57 c) | ED/77/2011 |
| Arsenic acid | 231-901-9 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Calcium arsenate | 231-904-5 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Trilead diarsenate | 222-979-5 | 19.12.2011 | Carcinogenic and toxic for reproduction (Articles 57 a and 57 c) | ED/77/2011 |
| N,N-dimethylacetamide (DMAC) | 204-826-4 | 19.12.2011 | Toxic for reproduction (Article 57 c) | ED/77/2011 |
| 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 202-918-9 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Phenolphthalein | 201-004-7 | 19.12.2011 | Carcinogenic (Article 57 a) | ED/77/2011 |
| Lead azide, lead diazide | 236-542-1 | 19.12.2011 | Toxic for reproduction (Article 57 c) | ED/77/2011 |
| Lead styphnate | 239-290-0 | 19.12.2011 | Toxic for reproduction (Article 57 c) | ED/77/2011 |
| Lead dipicrate | 229-335-2 | 19.12.2011 | Toxic for reproduction (Article 57 c) | ED/77/2011 |
| [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 | 18.06.2012 | Carcinogenic (Article 57 a) | 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 | 18.06.2012 | Mutagenic (Article 57 b) | ED/87/2012 |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 203-977-3 | 18.06.2012 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 209-218-2 | 18.06.2012 | Carcinogenic (Article 57 a) | ED/87/2012 |
| Lead(II) bis(methanesulfonate) | 401-750-5 | 18.06.2012 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 18.06.2012 | Toxic for reproduction (Article 57 c) | ED/87/2012 |

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| Diboron trioxide | 215-125-8 | 18.06.2012 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 229-851-8 | 18.06.2012 | Carcinogenic (Article 57 a) | ED/87/2012 |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 219-514-3 | 18.06.2012 | Mutagenic (Article 57 b) | ED/87/2012 |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 18.06.2012 | Carcinogenic (Article 57 a) | ED/87/2012 |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 18.06.2012 | Carcinogenic (Article 57 a) | ED/87/2012 |
| [4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammoniumchloride 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 | 18.06.2012 | Carcinogenic (Article 57 a) | ED/87/2012 |
| Formamide | 200-842-0 | 18.06.2012 | Toxic for reproduction (Article 57 c) | ED/87/2012 |
| Pyrochlore, antimony lead yellow | 232-382-1 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 6-methoxy-m-toluidine (p-cresidine) | 204-419-1 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| Henicosafluoroundecanoic acid | 218-165-4 | 19.12.2012 | 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 | 19.12.2012 | Respiratory sensitising properties (Article 57 f - human health) | 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 combinations of the cis- and trans-isomers [1] are covered by this entry] | 201-604-9, 236-086-3, 238-009-9 | 19.12.2012 | Respiratory sensitising properties (Article 57 f - human health) | ED/169/2012 |
| Dibutyltin dichloride (DBTC) | 211-670-0 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead bis(tetrafluoroborate) | 237-486-0 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead dinitrate | 233-245-9 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Silicic acid, lead salt | 234-363-3 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 4-Aminoazobenzene | 200-453-6 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| Lead titanium zirconium oxide | 235-727-4 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead monoxide (lead oxide) | 215-267-0 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |

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| o-Toluidine | 202-429-0 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Silicic acid ($H_2Si_2O_5$), 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 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Trilead bis(carbonate)dihydroxide | 215-290-6 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Furan | 203-727-3 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| N,N-dimethylformamide | 200-679-5 | 19.12.2012 | 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] | - | 19.12.2012 | Endocrine disrupting properties (Article 57 f - environment) | 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] | - | 19.12.2012 | Endocrine disrupting properties (Article 57 f - environment) | ED/169/2012 |
| 4,4'-methylenedi-o-toluidine | 212-658-8 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| Diethyl sulphate | 200-589-6 | 19.12.2012 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) | ED/169/2012 |
| Dimethyl sulphate | 201-058-1 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| Lead oxide sulfate | 234-853-7 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead titanium trioxide | 235-038-9 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Acetic acid, lead salt, basic | 257-175-3 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| [Phthalato(2-)]dioxotrilead | 273-688-5 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) | 214-604-9 | 19.12.2012 | PBT (Article 57 d); vPvB (Article 57 e) | ED/169/2012 |
| N-methylacetamide | 201-182-6 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 1,2-Diethoxyethane | 211-076-1 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Tetralead trioxide sulphate | 235-380-9 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| N-pentyl-isopentylphthalate | - | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Dioxobis(stearato)trilead | 235-702-8 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |

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| Tetraethyllead | 201-075-4 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Pentalead tetraoxide sulphate | 235-067-7 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Pentacosafluorotridecanoic acid | 276-745-2 | 19.12.2012 | vPvB (Article 57 e) | ED/169/2012 |
| Tricosafluorododecanoic acid | 206-203-2 | 19.12.2012 | vPvB (Article 57 e) | ED/169/2012 |
| Heptacosafluorotetradecanoic acid | 206-803-4 | 19.12.2012 | vPvB (Article 57 e) | ED/169/2012 |
| 1-bromopropane (n-propyl bromide) | 203-445-0 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Methoxyacetic acid | 210-894-6 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 202-453-1 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| Methyloxirane (Propylene oxide) | 200-879-2 | 19.12.2012 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) | ED/169/2012 |
| Trilead dioxide phosphonate | 235-252-2 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| o-aminoazotoluene | 202-591-2 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 284-032-2 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| 4,4'-oxydianiline and its salts | 202-977-0 | 19.12.2012 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) | ED/169/2012 |
| Orange lead (lead tetroxide) | 215-235-6 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Biphenyl-4-ylamine | 202-177-1 | 19.12.2012 | Carcinogenic (Article 57 a) | ED/169/2012 |
| Diisopentylphthalate | 210-088-4 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Fatty acids, C16-18, lead salts | 292-966-7 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 204-650-8 | 19.12.2012 | Respiratory sensitising properties (Article 57 f - human health) | ED/169/2012 |
| Sulfurous acid, lead salt, dibasic | 263-467-1 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Lead cyanamidate | 244-073-9 | 19.12.2012 | Toxic for reproduction (Article 57 c) | ED/169/2012 |
| Cadmium | 231-152-8 | 20.06.2013 | Carcinogenic (Article 57 a); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED/69/2013 |
| Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 20.06.2013 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) | ED/69/2013 |
| Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 20.06.2013 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) | ED/69/2013 |

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| Dipentyl phthalate (DPP) | 244-073-9 | 20.06.2013 | 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] | - | 20.06.2013 | Endocrine disrupting properties (Article 57 f - environment) | ED/69/2013 |
| Cadmium oxide | 215-146-2 | 20.06.2013 | Carcinogenic (Article 57 a); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED/69/2013 |
| Cadmium sulphide | 215-147-8 | 16.12.2013 | Carcinogenic (Article 57 a); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED/121/2013 |
| Dihexyl phthalate | 201-559-5 | 16.12.2013 | 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 | 16.12.2013 | Carcinogenic (Article 57 a) | 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 | 16.12.2013 | Carcinogenic (Article 57 a) | ED/121/2013 |
| Imidazolidine-2-thione; 2-imidazoline-2-thiol | 202-506-9 | 16.12.2013 | Toxic for reproduction (Article 57 c) | ED/121/2013 |
| Lead di(acetate) | 206-104-4 | 16.12.2013 | Toxic for reproduction (Article 57 c) | ED/121/2013 |
| Trixylyl phosphate | 246-677-8 | 16.12.2013 | Toxic for reproduction (Article 57 c) | ED/121/2013 |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 271-093-5 | 16.06.2014 | Toxic for reproduction (Article 57 c) | ED/49/2014 |
| Cadmium chloride | 233-296-7 | 16.06.2014 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED/49/2014 |
| Sodium perborate; perboric acid, sodium salt | 239-172-9; 234-390-0 | 16.06.2014 | Toxic for Reproduction (Article 57 c) | ED/49/2014 |
| Sodium peroxometaborate | 231-556-4 | 16.06.2014 | Toxic for Reproduction (Article 57 c) | ED/49/2014 |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 247-384-8 | 17.12.2014 | PBT (Article 57 d) | ED/108/2014 |

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| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 223-346-6 | 17.12.2014 | 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 | 17.12.2014 | PBT (Article 57 d) | ED/108/2014 |
| Cadmium fluoride | 232-222-0 | 17.12.2014 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED/108/2014 |
| Cadmium sulphate | 233-331-6 | 17.12.2014 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | 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) | - | 17.12.2014 | Toxic for Reproduction (Article 57 c) | ED/108/2014 |
| 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) | 271-094-0<br>272-013-1 | 15.06.2015 | Toxic for Reproduction (Article 57 c) | ED/39/2015 |
| 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 isomers of [1] and [2] or any combination thereof] | - | 15.06.2015 | vPvB (Article 57 e) | ED/39/2015 |
| 1,3-propanesultone; 1,2-oxathiolane 2,2-dioxide | 214-317-9 | 17.12.2015 | Carcinogenic (Article 57 a) | ED/79/2015 |
| 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 223-383-8 | 17.12.2015 | vPvB (Article 57 e) | ED/79/2015 |
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 253-037-1 | 17.12.2015 | vPvB (Article 57 e) | ED/79/2015 |
| Nitrobenzene | 202-716-0 | 17.12.2015 | Toxic for Reproduction (Article 57 c) | ED/79/2015 |
| Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts | 206-801-3 | 17.12.2015 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) | ED/79/2015 |

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| Benzo[def]chrysene (Benzo[a]pyrene) | 200-028-5 | 20.06.2016 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b);<br>Toxic for reproduction (Article 57 c);<br>PBT (Article 57 d);<br>vPvB (Article 57 e) | ED/21/2016 |
| 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] | - | 12.01.2017 | Endocrine disrupting properties (Article 57 f - environment) | ED/01/2017 |
| Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | - | 12.01.2017 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) | ED/01/2017 |
| p-(1,1-dimethylpropyl)phenol | 206-400-3 | 12.01.2017 | Endocrine disrupting properties (Article 57 f - environment) | ED/01/2017 |
| Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | - | 07.07.2017 | vPvB (Article 57 e) | ED/30/2017 |
| 4,4'-isopropylidenediphenol (bisphenol A) | 201-245-8 | 15.01.2018 | Toxic for reproduction (Article 57 c)<br>Endocrine disrupting properties (Article 57 f - human health, environment) | ED/01/2017<br>ED/30/2017<br>ED 01/2018 |
| Benz[a]anthracene | 200-280-6 | 15.01.2018 | Carcinogenic (Article 57 a); PBT (Article 57 d); vPvB (Article 57 e) | ED 01/2018 |
| Cadmium carbonate | 208-168-9 | 15.01.2018 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED 01/2018 |
| Cadmium hydroxide | 244-168-5 | 15.01.2018 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED 01/2018 |
| Cadmium nitrate | 233-710-6 | 15.01.2018 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Specific target organ toxicity after repeated exposure (Article 57 f - human health) | ED 01/2018 |
| Chrysene | 205-923-4 | 15.01.2018 | Carcinogenic (Article 57 a); PBT (Article 57 d); vPvB (Article 57 e) | ED 01/2018 |

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| 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) [covering any of its individual isomers or any combination thereof] | - | 15.01.2018 | vPvB (Article 57 e) | 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 |
| Benzene-1,2,4-tricarboxylic acid 1,2-anhydride; trimellitic anhydride; TMA | 209-008-0 | 27.06.2018 | Respiratory sensitising properties (Article 57 f - human health) | ED/61/2018 EU/2018/594 |
| Benzo[ghi]perylene | 205-883-8 | 27.06.2018 | PBT (Article 57 d) | ED 61/2018 |
| Decamethylcyclopentasiloxane, D5 | 208-764-9 | 27.06.2018 | vPvB (Article 57 e) | ED 61/2018 |
| Dicyclohexyl phthalate, DCHP | 201-545-9 | 27.06.2018 | PBT (Article 57 d) | EU/2018/636 ED/61/2018 |
| Disodium octaborate | 234-541-0 | 27.06.2018 | vPvB (Article 57 e) | ED 61/2018 |
| Dodecamethylcyclohexasiloxane, D6 | 208-762-8 | 27.06.2018 | Toxic for reproduction (Article 57 c) | ED 61/2018 |
| Ethylenediamine, EDA | 203-468-6 | 27.06.2018 | Endocrine disrupting properties (Article 57 f - human health) | ED 61/2018 |
| Lead | 231-100-4 | 27.06.2018 | Toxic for reproduction (Article 57 c) | ED 61/2018 |
| Octamethylcyclotetrasiloxane, D4 | 209-136-7 | 27.06.2018 | PBT (Article 57 d) | ED 61/2018 |
| Terphenyl, hydrogenated | 262-967-7 | 27.06.2018 | vPvB (Article 57 e) | ED 61/2018 |
| 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one; 3-benzylidene camphor; 3-BC | 239-139-9 | 15.01.2019 | Endocrine disrupting properties (Article 57 f - environment) | ED/88/2018 EU/2018/2013 |
| 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 401-720-1 | 15.01.2019 | Toxic for reproduction (Article 57 c) | ED/88/2018 |
| Benzo[k]fluoranthene | 205-916-6 | 15.01.2019 | Carcinogenic (Article 57 a) | ED/88/2018 |
| Fluoranthene | 205-912-4 | 15.01.2019 | PBT (Article 57 d) | ED/88/2018 |
| Phenanthrene | 201-581-5 | 15.01.2019 | vPvB (Article 57 e) | ED/88/2018 |
| Pyrene | 204-927-3 | 15.01.2019 | PBT (Article 57 d) | ED/88/2018 |
| 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides<br>covering any of their individual isomers and combinations thereof | - | 16.07.2019 | 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) | ED/71/2019 |
| 2-methoxyethyl acetate | 203-772-9 | 16.07.2019 | Toxic for reproduction (Article 57c) | ED/71/2019 |
| 4-tert-butylphenol | 202-679-0 | 16.07.2019 | Endocrine disrupting properties (Article 57 f - environment) | ED/71/2019 EU/2019/1194 |

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| Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | - | 16.07.2019 | Endocrine disrupting properties (Article 57 f - environment) | ED/71/2019 |
| Perfluorobutane sulfonic acid (PFBS) and its salts | | 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_2020 |
| Diisohexyl phthalate | 276-090-2 | 16.01.2020 | Toxic for reproduction (Article 57c) | ECHA_01_2020 |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 400-600-6 | 16.01.2020 | Toxic for reproduction (Article 57c) | ECHA_01_2020 |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 404-360-3 | 16.01.2020 | Toxic for reproduction (Article 57c) | ECHA_01_2020 |
| 1-vinylimidazole | 214-012-0 | 25.06.2020 | Toxic for reproduction (Article 57c) | D(2020)4578-DC |
| 2-methylimidazole | 211-765-7 | 25.06.2020 | Toxic for reproduction (Article 57c) | D(2020)4578-DC |
| Dibutylbis(pentane-2,4-dionato-O,O')tin | 245-152-0 | 25.06.2020 | Toxic for reproduction (Article 57c) | D(2020)4578-DC |
| Butyl 4-hydroxybenzoate | 202-318-7 | 25.06.2020 | Endocrine disrupting properties (Article 57 f – human health) | D(2020)4578-DC |
| Dioctyltin dilaurate<br>Stannane, dioctyl-, bis(coco acyloxy) derivs.<br>any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety | 222-883-3<br>293-901-5<br>- | 19.01.2021 | Toxic for reproduction (Article 57c) | D(2020)9139-DC |
| Bis(2-(2-methoxyethoxy)ethyl)ether | 205-594-7 | 19.01.2021 | Toxic for reproduction (Article 57c) | D(2020)9139-DC |

1) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5)
2) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5) and less than 0.1 % w/w benzene (EINECS No 200-753-7).]
3) The substance does not meet the criteria for identification as a mutagen in situations where it contains less than 0.1 % w/w benzene (EINECS No 200-753-7).]

Sincerely yours
EMS-GRIVORY

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REACH responsible for EMS-GRIVORY

Disclaimer:
The information above is accurate to the best of our current knowledge, but it is unavoidable that traces of the chemicals mentioned above (and other pollutants) may be detected with modern analytical methods, in amounts corresponding to common environmental pollution.

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