

Domat/Ems, June 22, 2023

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

Grilamid, Grivory, Griflex 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, Griflex and Grilon have the same status as products that are manufactured in the EU.

Since our products Grilamid, Grivory, Griflex 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

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
Material Testing



Benjamin Willers
MT EMS-GRIVORY

Regulatory Affairs



Dr. Thomas Emerschitz
REACH responsible for EMS-GRIVORY

Disclaimer:

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

Domat/Ems, June 22, 2023

Substances of Very High Concern (SVHC)

Dear Sir or Madam

We can confirm that our products Grilon, Grilamid, Grivory and Griflex, unless otherwise indicated in the respective MSDS, do not contain any of the SVHC included in the candidate list, which has been published on 14 June 2023, 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 57a)	ED/67/2008
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	28.10.2008	vPvB (Article 57e)	ED/67/2008
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	28.10.2008	PBT and vPvB (Articles 57d and 57e)	ED/67/2008
Anthracene	204-371-1	28.10.2008	PBT (Article 57d)	ED/67/2008
Benzyl butyl phthalate (BBP)	201-622-7	28.10.2008	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - human health)	ED/67/2008 ED/30/2017
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	28.10.2008 17.12.2014	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - environment) Endocrine disrupting properties (Article 57f - human health)	ED/67/2008 ED/108/2014 ED/30/2017
Bis(tributyltin)oxide (TBTO)	200-268-0	28.10.2008	PBT (Article 57d)	ED/67/2008
Diarsenic pentaoxide	215-116-9	28.10.2008	Carcinogenic (Article 57a)	ED/67/2008
Diarsenic trioxide	215-481-4	28.10.2008	Carcinogenic (Article 57a)	ED/67/2008
Dibutyl phthalate (DBP)	201-557-4	28.10.2008	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - human health)	ED/67/2008 ED/30/2017
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 221-695-9 (134237-50-6) (134237-51-7) (134237-52-8)	28.10.2008	PBT (Article 57d)	ED/67/2008
Lead hydrogen arsenate	232-064-2	28.10.2008	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/67/2008
Sodium dichromate	234-190-3 (7789-12-0 + 10588-01-9)	28.10.2008	Carcinogenic, mutagenic and toxic for reproduction (Articles 57a, 57b and 57c)	ED/67/2008
Triethyl arsenate	427-700-2	28.10.2008	Carcinogenic (Article 57a)	ED/67/2008
2,4-Dinitrotoluene	204-450-0	13.01.2010	Carcinogenic (Article 57a)	ED/68/2009

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Aluminosilicate Refractory Ceramic Fibres <i>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:</i> a) Al ₂ O ₃ and SiO ₂ are present within the following concentration ranges: - Al ₂ O ₃ : 43.5 – 47 % w/w, and SiO ₂ : 49.5 – 53.5 % w/w, or - Al ₂ O ₃ : 45.5 – 50.5 % w/w, and SiO ₂ : 48.5 – 54 % w/w, 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 57a)	ED/68/2009
Anthracene oil	292-602-7	13.01.2010	Carcinogenic1), PBT and vPvB (Articles 57a, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene-low	292-604-8	13.01.2010	Carcinogenic2), mutagenic3), PBT and vPvB (Articles 57a, 57b, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene paste	292-603-2	13.01.2010	Carcinogenic2), mutagenic3), PBT and vPvB (Articles 57a, 57b, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	13.01.2010	Carcinogenic2), mutagenic3), PBT and vPvB (Articles 57a, 57b, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene paste, distn. lights	295-278-5	13.01.2010	Carcinogenic2), mutagenic3), PBT and vPvB (Articles 57a, 57b, 57d and 57e)	ED/68/2009
Diisobutyl phthalate (DIBP)	201-553-2	13.01.2010	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - human health)	ED/68/2009 ED/30/2017
Lead chromate	231-846-0	13.01.2010	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	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 57a and 57c)	ED/68/2009
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	13.01.2010	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/68/2009
Pitch, coal tar, high temp.	266-028-2	13.01.2010	Carcinogenic, PBT and vPvB (Articles 57a, 57d and 57e)	ED/68/2009
Tris(2-chloroethyl)phosphate	204-118-5	13.01.2010	Toxic for reproduction (Article 57c)	ED/68/2009
Zirconia Aluminosilicate Refractory Ceramic Fibres <i>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:</i> 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).	-	13.01.2010	Carcinogenic (Article 57a)	ED/68/2009
Acrylamide	201-173-7	30.03.2010	Carcinogenic and mutagenic (Articles 57a and 57b)	ED/68/2009
Trichloroethylene	201-167-4	18.06.2010	Carcinogenic (Article 57a)	ED/30/2010
Boric acid	233-139-2 / 234-343-4	18.06.2010	Toxic for reproduction (Article 57c)	ED/30/2010
Disodium tetraborate, anhydrous	215-540-4	18.06.2010	Toxic for reproduction (Article 57c)	ED/30/2010
Tetraboron disodium heptaoxide, hydrate	235-541-3	18.06.2010	Toxic for reproduction (Article 57c)	ED/30/2010

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Potassium dichromate	231-906-6	18.06.2010	Carcinogenic, mutagenic and toxic for reproduction (Articles 57a, 57b and 57c)	ED/30/2010
Ammonium dichromate	232-143-1	18.06.2010	Carcinogenic, mutagenic and toxic for reproduction (Articles 57a, 57b and 57c)	ED/30/2010
Potassium chromate	232-140-5	18.06.2010	Carcinogenic and mutagenic (Articles 57a and 57b).	ED/30/2010
Sodium chromate	231-889-5	18.06.2010	Carcinogenic, mutagenic and toxic for reproduction (Articles 57a, 57b and 57c)	ED/30/2010
Cobalt(II) sulphate	233-334-2	15.12.2010	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/95/2010
Cobalt(II) dinitrate	233-402-1	15.12.2010	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/95/2010
Cobalt(II) carbonate	208-169-4	15.12.2010	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/95/2010
Cobalt(II) diacetate	200-755-8	15.12.2010	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/95/2010
2-Methoxyethanol	203-713-7	15.12.2010	Toxic for reproduction (Article 57c)	ED/95/2010
2-Ethoxyethanol	203-804-1	15.12.2010	Toxic for reproduction (Article 57c)	ED/95/2010
Chromium trioxide	215-607-8	15.12.2010	Carcinogenic and mutagenic (Articles 57a and 57b)	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 57a)	ED/95/2010
2-Ethoxyethyl acetate	203-839-2	20.06.2011	Toxic for reproduction (Article 57c)	ED/31/2011
Strontium chromate	232-142-6	20.06.2011	Carcinogenic (Article 57a)	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 57c)	ED/31/2011
Hydrazine	206-114-9	20.06.2011	Carcinogenic (Article 57a)	ED/31/2011
1-Methyl-2-pyrrolidone	212-828-1	20.06.2011	Toxic for reproduction (Article 57c)	ED/31/2011
1,2,3-Trichloropropane	202-486-1	20.06.2011	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	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 57c)	ED/31/2011
Cobalt dichloride	231-589-4	20.06.2011 28.10.2008	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/31/2011 ED67/2008
Dichromium tris(chromate)	246-356-2	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Potassium hydroxyoctaoxodizincate-dichromate	234-329-8	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Aluminosilicate Refractory Ceramic Fibres (RCF) <i>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:</i> <i>a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges</i> <i>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)</i> <i>c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight</i>	-	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) <i>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:</i> <i>a) oxides of aluminium, silicon and zirco-</i>	-	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011

<i>nium are the main components present (in the fibres) within variable concentration ranges</i> <i>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).</i> <i>c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>				
Pentazinc chromate octahydroxide	256-418-0	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Bis(2-methoxyethyl) phthalate	204-212-6	19.12.2011	Toxic for reproduction (Article 57c)	ED/77/2011
2-Methoxyaniline; o-Anisidine	201-963-1	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	19.12.2011	Endocrine disrupting properties (Article 57f - environment)	ED/77/2011
1,2-Dichloroethane	203-458-1	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Bis(2-methoxyethyl)ether	203-924-4	19.12.2011	Toxic for reproduction (Article 57c)	ED/77/2011
Arsenic acid	231-901-9	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Calcium arsenate	231-904-5	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Trilead diarsenate	222-979-5	19.12.2011	Carcinogenic and toxic for reproduction (Articles 57a and 57c)	ED/77/2011
N,N-dimethylacetamide (DMAC)	204-826-4	19.12.2011	Toxic for reproduction (Article 57c)	ED/77/2011
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Phenolphthalein	201-004-7	19.12.2011	Carcinogenic (Article 57a)	ED/77/2011
Lead azide, lead diazide	236-542-1	19.12.2011	Toxic for reproduction (Article 57c)	ED/77/2011
Lead styphnate	239-290-0	19.12.2011	Toxic for reproduction (Article 57c)	ED/77/2011
Lead dipicrate	229-335-2	19.12.2011	Toxic for reproduction (Article 57c)	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 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	18.06.2012	Mutagenic (Article 57b)	ED/87/2012
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	18.06.2012	Toxic for reproduction (Article 57c)	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 57a)	ED/87/2012
Lead(II) bis(methanesulfonate)	401-750-5	18.06.2012	Toxic for reproduction (Article 57c)	ED/87/2012
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	18.06.2012	Toxic for reproduction (Article 57c)	ED/87/2012
Diboron trioxide	215-125-8	18.06.2012	Toxic for reproduction (Article 57c)	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 57a)	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 57b)	ED/87/2012
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	202-027-5	18.06.2012	Carcinogenic (Article 57a)	ED/87/2012
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	18.06.2012	Carcinogenic (Article 57a)	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.	219-943-6	18.06.2012	Carcinogenic (Article 57a)	ED/87/2012

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202-959-2)]				
Formamide	200-842-0	18.06.2012	Toxic for reproduction (Article 57c)	ED/87/2012
Trilead dioxide phosphonate	235-252-2	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Trilead bis(carbonate)dihydroxide	215-290-6	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Tricosafuorododecanoic acid	206-203-2	19.12.2012	vPvB (Article 57e)	ED/169/2012
Tetralead trioxide sulphate	235-380-9	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Tetraethyllead	201-075-4	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Sulfurous acid, lead salt, dibasic	263-467-1	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Silicic acid, lead salt	234-363-3	19.12.2012	Toxic for reproduction (Article 57c)	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	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Pyrochlore, antimony lead yellow	232-382-1	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Pentalead tetroxide sulphate	235-067-7	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Pentacosafuorotridecanoic acid	276-745-2	19.12.2012	vPvB (Article 57e)	ED/169/2012
Orange lead (lead tetroxide)	215-235-6	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
o-toluidine	202-429-0	19.12.2012	Carcinogenic (Article 57a)	ED/169/2012
o-aminoazotoluene	202-591-2	19.12.2012	Carcinogenic (Article 57a)	ED/169/2012
N-methylacetamide	201-182-6	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
N,N-dimethylformamide	200-679-5	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Methyloxirane (Propylene oxide)	200-879-2	19.12.2012	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
Methoxyacetic acid	210-894-6	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Lead titanium zirconium oxide	235-727-4	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Lead titanium trioxide	235-038-9	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Lead oxide sulfate	234-853-7	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Lead monoxide (lead oxide)	215-267-0	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Lead dinitrate	233-245-9	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Lead cyanamidate	244-073-9	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Lead bis(tetrafluoroborate)	237-486-0	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
N-pentyl-isopentylphthalate	-	19.12.2012	Toxic for reproduction (Article 57c)	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 57f - human health)	ED/169/2012
Heptacosafuorotetradecanoic acid	206-803-4	19.12.2012	vPvB (Article 57e)	ED/169/2012
Henicosafuoroundecanoic acid	218-165-4	19.12.2012	vPvB (Article 57e)	ED/169/2012
Furan	203-727-3	19.12.2012	Carcinogenic (Article 57a)	ED/169/2012
Fatty acids, C16-18, lead salts	292-966-7	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Dioxobis(stearato)trilead	235-702-8	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Dimethyl sulphate	201-058-1	19.12.2012	Carcinogenic (Article 57a)	ED/169/2012
Diisopentylphthalate (DIPP)	210-088-4	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Diethyl sulphate	200-589-6	19.12.2012	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
Dibutyltin dichloride (DBTC)	211-670-0	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	19.12.2012	Respiratory sensitising properties (Article 57f - 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 57f - human health)	ED/169/2012
Bis(pentabromophenyl) ether	214-604-9	19.12.2012	PBT (Article 57d); vPvB (Article 57e)	ED/169/2012

(decabromodiphenyl ether; DecaBDE)			57e)	
Biphenyl-4-ylamine	202-177-1	19.12.2012	Carcinogenic (Article 57a)	ED/169/2012
Acetic acid, lead salt, basic	257-175-3	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
[Phthalato(2-)]dioxotrilead	273-688-5	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
6-methoxy-m-toluidine (p-cresidine)	204-419-1	19.12.2012	Carcinogenic (Article 57a)	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 57f - environment)	ED/169/2012
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	19.12.2012	Carcinogenic (Article 57a)	ED/169/2012
4-Aminoazobenzene	200-453-6	19.12.2012	Carcinogenic (Article 57a)	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 57f - environment)	ED/169/2012
4,4'-oxydianiline and its salts	202-977-0	19.12.2012	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
4,4'-methylenedi-o-toluidine	212-658-8	19.12.2012	Carcinogenic (Article 57a)	ED/169/2012
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
1-bromopropane (n-propyl bromide)	203-445-0	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
1,2-Diethoxyethane	211-076-1	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	19.12.2012	Toxic for reproduction (Article 57c)	ED/169/2012
Cadmium	231-152-8	20.06.2013	Carcinogenic (Article 57a); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED/69/2013
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	20.06.2013	Toxic for reproduction (Article 57c); PBT (Article 57d)	ED/69/2013
Pentadecafluorooctanoic acid (PFOA)	206-397-9	20.06.2013	Toxic for reproduction (Article 57c); PBT (Article 57d)	ED/69/2013
Dipentyl phthalate (DPP)	244-073-9	20.06.2013	Toxic for reproduction (Article 57c)	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 57f - environment)	ED/69/2013
Cadmium oxide	215-146-2	20.06.2013	Carcinogenic (Article 57a); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED/69/2013
Cadmium sulphide	215-147-8	16.12.2013	Carcinogenic (Article 57a); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED/121/2013
Dihexyl phthalate	201-559-5	16.12.2013	Toxic for reproduction (Article 57c)	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 57a)	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 57a)	ED/121/2013
Imidazolidine-2-thione; 2-imidazoline-2-thiol	202-506-9	16.12.2013	Toxic for reproduction (Article 57c)	ED/121/2013
Lead di(acetate)	206-104-4	16.12.2013	Toxic for reproduction (Article 57c)	ED/121/2013
Trixylyl phosphate	246-677-8	16.12.2013	Toxic for reproduction (Article 57c)	ED/121/2013

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1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	16.06.2014	Toxic for reproduction (Article 57c)	ED/49/2014
Cadmium chloride	233-296-7	16.06.2014	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED/49/2014
Sodium perborate; perboric acid, sodium salt	239-172-9 234-390-0	16.06.2014	Toxic for Reproduction (Article 57c)	ED/49/2014
Sodium peroxometaborate	231-556-4	16.06.2014	Toxic for Reproduction (Article 57c)	ED/49/2014
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	17.12.2014	PBT (Article 57d)	ED/108/2014
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	17.12.2014	vPvB (Article 57e)	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 57d)	ED/108/2014
Cadmium fluoride	232-222-0	17.12.2014	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED/108/2014
Cadmium sulphate	233-331-6	17.12.2014	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Specific target organ toxicity after repeated exposure (Article 57f - 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 57c)	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)	271-094-0 272-013-1	15.06.2015	Toxic for Reproduction (Article 57c)	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 57e)	ED/39/2015
1,3-propanesultone; 1,2-oxathiolane 2,2-dioxide	214-317-9	17.12.2015	Carcinogenic (Article 57a)	ED/79/2015
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	17.12.2015	vPvB (Article 57e)	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 57e)	ED/79/2015
Nitrobenzene	202-716-0	17.12.2015	Toxic for Reproduction (Article 57c)	ED/79/2015
Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts)	206-801-3	17.12.2015	Toxic for reproduction (Article 57c); PBT (Article 57d)	ED/79/2015
Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	20.06.2016	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e)	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]	-	12.01.2017	Endocrine disrupting properties (Article 57f - environment)	ED/01/2017

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	-	12.01.2017	Toxic for reproduction (Article 57c); PBT (Article 57d)	ED/01/2017
p-(1,1-dimethylpropyl)phenol	206-400-3	12.01.2017	Endocrine disrupting properties (Article 57f - environment)	ED/01/2017
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	07.07.2017	vPvB (Article 57e)	ED/30/2017
4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	15.01.2018	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - human health, environment)	ED/01/2017 ED/30/2017 ED 01/2018
Benz[a]anthracene	200-280-6	15.01.2018	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)	ED 01/2018
Cadmium carbonate	208-168-9	15.01.2018	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED 01/2018
Cadmium hydroxide	244-168-5	15.01.2018	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED 01/2018
Cadmium nitrate	233-710-6	15.01.2018	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57f - human health)	ED 01/2018
Chrysene	205-923-4	15.01.2018	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)	ED 01/2018
1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.1.16,9.02,13.05,10]octadeca-7,15-diene (Dechlorane Plus) [covering any of its individual isomers or any combination thereof]	-	15.01.2018	vPvB (Article 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 57f - 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 57f - human health)	ED/61/2018 EU/2018/594
Benzo[ghi]perylene	205-883-8	27.06.2018	PBT (Article 57d)	ED 61/2018
Decamethylcyclopentasiloxane, D5	208-764-9	27.06.2018	vPvB (Article 57e)	ED 61/2018
Dicyclohexyl phthalate, DCHP	201-545-9	27.06.2018	PBT (Article 57d)	EU/2018/636 ED/61/2018
Disodium octaborate	234-541-0	27.06.2018	vPvB (Article 57e)	ED 61/2018
Dodecamethylcyclohexasiloxane, D6	208-762-8	27.06.2018	Toxic for reproduction (Article 57c)	ED 61/2018
Ethylenediamine, EDA	203-468-6	27.06.2018	Endocrine disrupting properties (Article 57f - human health)	ED 61/2018
Lead	231-100-4	27.06.2018	Toxic for reproduction (Article 57c)	ED 61/2018
Octamethylcyclotetrasiloxane, D4	209-136-7	27.06.2018	PBT (Article 57d)	ED 61/2018
Terphenyl, hydrogenated	262-967-7	27.06.2018	vPvB (Article 57e)	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 57f - environment)	ED/88/2018 EU/2018/2013
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	15.01.2019	Toxic for reproduction (Article 57c)	ED/88/2018
Benzo[k]fluoranthene	205-916-6	15.01.2019	Carcinogenic (Article 57a)	ED/88/2018
Fluoranthene	205-912-4	15.01.2019	PBT (Article 57d)	ED/88/2018
Phenanthrene	201-581-5	15.01.2019	vPvB (Article 57e)	ED/88/2018
Pyrene	204-927-3	15.01.2019	PBT (Article 57d)	ED/88/2018

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2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	16.07.2019	Equivalent level of concern having probable serious effects to human health (Article 57f - human health) Equivalent level of concern having probable serious effects to the environment (Article 57f - 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 57f - environment)	ED/71/2019 EU/2019/1194
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 57f - 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)	EC-HA/01/2020
Diisohexyl phthalate	276-090-2	16.01.2020	Toxic for reproduction (Article 57c)	EC-HA/01/2020
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	16.01.2020	Toxic for reproduction (Article 57c)	EC-HA/01/2020
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	16.01.2020	Toxic for reproduction (Article 57c)	EC-HA/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 57f – human health)	D(2020)4578-DC
Diocetyl tin dilaurate Stannane, dioctyl-, bis(coco acyloxy) derivs. any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	222-883-3 293-901-5 -	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
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	08.07.2021	Toxic for reproduction (Article 57c)	D(2021)4569-DC
Orthoboric acid, sodium salt	237-560-2	08.07.2021	Toxic for reproduction (Article 57c)	D(2021)4569-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)	221-967-7 253-057-0 202-480-9	08.07.2021	Carcinogenic (Article 57a)	D(2021)4569-DC
Glutaral	203-856-5	08.07.2021	Respiratory sensitising properties (Article 57f - human health)	D(2021)4569-DC
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)	-	08.07.2021	PBT (Article 57d) vPvB (Article 57e)	D(2021)4569-DC
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations	-	08.07.2021	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - human health and environment)	D(2021)4569-DC

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thereof (PDDP)				
1,4-dioxane	204-661-8	08.07.2021	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to the environment (Article 57f -environment) Equivalent level of concern having probable serious effects to human health (Article 57f –human health)	D(2021)4569-DC
4,4'-(1-methylpropylidene)bisphenol	201-025-1	08.07.2021	Endocrine disrupting properties (Article 57f - human health and environment)	D(2021)4569-DC
6,6'-di-tert-butyl-2,2'-methylene-dip-cresol (DBMC)	204-327-1	17.01.2022	Toxic for reproduction (Article 57c)	D(2021)10043-DC
tris(2-methoxyethoxy)vinylsilane	213-934-0	17.01.2022	Toxic for reproduction (Article 57c)	D(2021)10043-DC
(±)-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)	-	17.01.2022	Endocrine disrupting properties (Article 57f - human health)	D(2021)10043-DC
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	401-850-9	17.01.2022	PBT (Article 57d)	D(2021)10043-DC
N-(hydroxymethyl)acrylamide	213-103-2	10.06.2022	Carcinogenic (Article 57a) Mutagenic (Article 57b)	D(2022)4187-DC
Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	473-390-7	17.01.2023	vPvB (Article 57e)	D(2022)9120-DC
Perfluoroheptanoic acid and its salts: Sodium perfluoroheptanoate Potassium perfluoroheptanoate Ammonium perfluoroheptanoate Perfluoroheptanoic acid	- 243-518-4 - 228-098-2 206-798-9	17.01.2023	Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e) 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(2022)9120-DC
Melamine	203-615-4	17.01.2023	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(2022)9120-DC
Isobutyl 4-hydroxybenzoate	224-208-8	17.01.2023	Endocrine disrupting properties (Article 57(f) - human health)	D(2022)9120-DC
Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	247-426-5	17.01.2023	vPvB (Article 57e)	D(2022)9120-DC
4,4'-sulphonyldiphenol	201-250-5	17.01.2023	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	D(2022)9120-DC
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	17.01.2023	Carcinogenic (Article 57a)	D(2022)9120-DC
1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	253-692-3	17.01.2023	vPvB (Article 57e)	D(2022)9120-DC
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	14.06.2023	Toxic for reproduction (Article 57c)	D(2023)3788-DC
Bis(4-chlorophenyl) sulphone	201-247-9	14.06.2023	vPvB (Article 57e)	D(2023)3788-DC

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- 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).]

EMS-GRIVORY
Material Testing



Benjamin Willers
MT EMS-GRIVORY

Regulatory Affairs



Dr. Thomas Emerschitz
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.