



DuPont Specialty Products Operations Sàrl  
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Switzerland  
Tel. +41-22-717-5900

24 January 2019

Customer Letter 8 articles  
Status: 15 January 2019

Dear Customer,

**Subject:** Absence of REACH 'Candidate List' substances in Herox<sup>®</sup>, Natrafil<sup>®</sup>, Orel<sup>®</sup>, Tynex<sup>®</sup> and Vespel<sup>®\*\*</sup>

We have received a number of material declaration requests from our customers referring to REACH and the potential presence of Substances of Very High Concern (SVHC).

The intent of this letter is to clarify how the DuPont Transportation & Advanced Polymers products are affected by the REACH 'Candidate List'.

The above products fulfil the criteria of being articles in line with REACH article 3(3) and the ECHA guidance on 'Requirements for the substances in articles' as published in May 2008. There are no substances intended to be released from these products as defined by article 7(1) under normal or reasonably foreseeable conditions of use.

DuPont Transportation & Advanced Polymers confirms that the above products do not contain any of the substances listed in the 'Candidate List'\* as last amended on 15<sup>th</sup> January 2019 in a concentration above 0.1% weight by weight (w/w).

DuPont Transportation & Advanced Polymers confirms that we do not add to the above products any of the substances listed on the Annex XIV to Regulation (EC) N° 1907/2006 as last amended on 13<sup>th</sup> June 2017 (Regulation (EU) No 999/2017).

We are committed to comply in every respect to the requirements of REACH and relevant amendments. At present, we do not expect any anticipated Substances of Very High Concern to be in our above products requiring reporting to the supply chain.

Should you have any question regarding the content of this letter, or any other REACH related subject, please do not hesitate to contact us.

Yours faithfully,

Dr. Line Fanichet  
Regulatory Affairs Consultant

\* <http://echa.europa.eu/web/guest/candidate-list-table>

\*\* Excluding one specific grade for which separate communication already was issued.



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This information is based on our current level of knowledge and expresses only our intention. It does not constitute a binding obligation. Whilst the information is provided in good faith, no representations or warranties are made with regards to its completeness or accuracy and no liability will be accepted for damages of any nature whatsoever resulting from the use of or reliance on the information.

As we cannot be aware of all aspects of your business and the impact REACH Regulation may have on your company, we strongly encourage you to get familiar with REACH, its requirements and timelines.

DuPont has no intention to change its product portfolio of polymer offerings due to the introduction of REACH under the condition, that REACH does not impose commercial or technical burden, which could impact the health of our business. However, since DuPont depends on its suppliers, DuPont is not in full control of this decision. Based on industry assessments, it is likely that a certain number of chemicals will no longer be available to the European market. This may necessitate product reformulation, and subsequent product / article re-qualification, or, in more critical cases, to a complete product change.



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## 'Candidate List' Substances

<b>Publication</b>	Press release ECHA/PR/19/01
<b>Date of inclusion</b>	15 <sup>th</sup> January 2019
Decision Number:	ED/88/2018
Number of Substances:	6 (total 197)
<b>Substance Name</b>	2,2-bis(4'-hydroxyphenyl)-4-methylpentane
<b>EC Number</b>	401-720-1
<b>CAS Number</b>	6807-17-6
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Benzo[k]fluoranthene
<b>EC Number</b>	205-916-6
<b>CAS Number</b>	207-08-9
<b>Reason for inclusion</b>	Carcinogen (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)
<b>Substance Name</b>	Fluoranthene
<b>EC Number</b>	205-912-4
<b>CAS Number</b>	206-44-0
<b>Reason for inclusion</b>	PBT (Article 57 d), vPvB (Article 57 e)
<b>Substance Name</b>	Phenanthrene
<b>EC Number</b>	201-581-5
<b>CAS Number</b>	85-01-8
<b>Reason for inclusion</b>	vPvB (Article 57 e)
<b>Substance Name</b>	Pyrene
<b>EC Number</b>	204-927-3
<b>CAS Number</b>	129-00-0
<b>Reason for inclusion</b>	PBT (Article 57 d), vPvB (Article 57 e)
<b>Substance Name</b>	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one
<b>EC Number</b>	239-139-9
<b>CAS Number</b>	15087-24-8
<b>Reason for inclusion</b>	Endocrine disrupting properties (Article 57 f)

<b>Publication</b>	Press release ECHA/PR/18/11
<b>Date of inclusion</b>	27 <sup>th</sup> June 2018
Decision Number:	ED/61/2018
Number of Substances:	10 (total 191)
<b>Substance Name</b>	Octamethylcyclotetrasiloxane (D4)
<b>EC Number</b>	209-136-7
<b>CAS Number</b>	556-67-2
<b>Reason for inclusion</b>	PBT (Article 57 d), vPvB (Article 57 e)
<b>Substance Name</b>	Decamethylcyclopentasiloxane (D5)
<b>EC Number</b>	208-764-9
<b>CAS Number</b>	541-02-6
<b>Reason for inclusion</b>	PBT (Article 57 d), vPvB (Article 57 e)



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**Substance Name** Dodecamethylcyclohexasiloxane (D6)  
**EC Number** 208-762-8  
**CAS Number** 540-97-6  
**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

**Substance Name** Lead  
**EC Number** 231-100-4  
**CAS Number** 7439-92-1  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Disodium octaborate  
**EC Number** 234-541-0  
**CAS Number** 12008-41-2  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Benzo[ghi]perylene  
**EC Number** 205-883-8  
**CAS Number** 191-24-2  
**Reason for inclusion** PBT (Article 57 d), vPvB (Article 57 e)

**Substance Name** Terphenyl hydrogenated  
**EC Number** 262-967-7  
**CAS Number** 61788-32-7  
**Reason for inclusion** vPvB (Article 57 e)

**Substance Name** Ethylenediamine (EDA)  
**EC Number** 203-468-6  
**CAS Number** 107-15-3  
**Reason for inclusion** Respiratory sensitizing properties (Article 57 f - human health)

**Substance Name** Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)  
**EC Number** 209-008-0  
**CAS Number** 552-30-7  
**Reason for inclusion** Respiratory sensitizing properties (Article 57 f - human health)

**Substance Name** Dicyclohexyl phthalate (DCHP)  
**EC Number** 201-545-9  
**CAS Number** 84-61-7  
**Reason for inclusion** Toxic for reproduction (Article 57 c), Endocrine disrupting properties ((Article 57 f - human health)

**Publication** Press release ECHA/PR/18/01

**Date of inclusion** 15<sup>th</sup> January 2018

Decision Number: ED/01/2018

Number of Substances: 8 (total 181)

**Substance Name** 4,4'-isopropylidenediphenol (bisphenol A; BPA)  
**EC Number** 201-245-8  
**CAS Number** 80-05-7  
**Reason for inclusion** Endocrine disrupting properties (Article 57 f)

**Substance Name** Chrysene  
**EC Number** 205-923-4  
**CAS Number** 218-01-9  
**Reason for inclusion** Carcinogenic (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)

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<b>Substance Name</b>	Benz[a]anthracene
<b>EC Number</b>	200-280-6
<b>CAS Number</b>	56-55-3
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)
<b>Substance Name</b>	Cadmium nitrate
<b>EC Number</b>	233-710-6
<b>CAS Number</b>	10325-94-7
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity after repeated exposure (Article 57 f)
<b>Substance Name</b>	Cadmium hydroxide
<b>EC Number</b>	244-168-5
<b>CAS Number</b>	21041-95-2
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity after repeated exposure (Article 57 f)
<b>Substance Name</b>	Cadmium carbonate
<b>EC Number</b>	208-168-9
<b>CAS Number</b>	513-78-0
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity after repeated exposure (Article 57 f)
<b>Substance Name</b>	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.1. <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof]
<b>EC Number</b>	-
<b>CAS Number</b>	-
<b>Reason for inclusion</b>	vPvB (Article 57 e)
<b>Substance Name</b>	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear
<b>EC Number</b>	-
<b>CAS Number</b>	-
<b>Reason for inclusion</b>	Endocrine disrupting properties (Article 57 f)

**Publication** Press release ECHA/PR/17/14

**Date of inclusion** 07<sup>th</sup> July 2017

Decision Number: ED/30/2017

Number of Substances: 1 (total 174)

**Substance Name** Perfluorohexane-1-sulphonic acid and its salts

**EC Number** -

**CAS Number** -

**Reason for inclusion** vPvB (Article 57 e)

**Publication** Press release ECHA/PR/17/02

**Date of inclusion** 12<sup>th</sup> January 2017

Decision Number: ED/01/2017

Number of Substances: 4 (total 173)



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**Substance Name** 4,4'-isopropylidenediphenol  
**EC Number** 201-245-8  
**CAS Number** 80-05-7  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  
**EC Number** 206-400-3, -, 221-470-5  
**CAS Number** 335-76-2, 3830-45-3, 3108-42-7  
**Reason for inclusion** Toxic for reproduction (Article 57 c), PBT (Article 57 d)

**Substance Name** *p*-(1,1-dimethylpropyl)phenol  
**EC Number** 201-280-9  
**CAS Number** 80-46-6  
**Reason for inclusion** Equivalent level of concern having probable serious effects to environment (Article 57f)

**Substance Name** 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]  
**EC Number** -  
**CAS Number** -  
**Reason for inclusion** Equivalent level of concern having probable serious effects to environment (Article 57f)

**Publication** Press release ECHA/PR/16/07

**Date of inclusion** 20<sup>th</sup> June 2016

Decision Number: ED/21/2016  
Number of Substances: 1 (total 169)

**Substance Name** Benzo[def]chrysene  
**EC Number** 200-028-5  
**CAS Number** 50-32-8  
**Reason for inclusion** Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Toxic for reproduction (Article 57 c), PBT (Article 57 d), vPvB (Article 57 e)

**Publication** Press release ECHA/PR/15/18

**Date of inclusion** 17<sup>th</sup> December 2015

Decision Number: ED/79/2015  
Number of Substances: 5 (total 168)

**Substance Name** Nitrobenzene  
**EC Number** 202-716-0  
**CAS Number** 98-95-3  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)  
**EC Number** 223-383-8  
**CAS Number** 3864-99-1  
**Reason for inclusion** vPvB (Article 57 e)

**Substance Name** 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)  
**EC Number** 253-037-1  
**CAS Number** 36437-37-3  
**Reason for inclusion** vPvB (Article 57 e)



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**Substance Name** 1,3-propanesultone  
**EC Number** 214-317-9  
**CAS Number** 1120-71-4  
**Reason for inclusion** Carcinogenic (Article 57 a)

**Substance Name** Perfluorononan-1-oic-acid and its sodium and ammonium salts  
**EC Number** 206-801-3  
**CAS Number** 375-95-1, 21049-39-8, 4149-60-4  
**Reason for inclusion** Toxic for reproduction (Article 57 c), PBT (Article 57 d)

**Publication** Press release ECHA/PR/15/09

**Date of inclusion** 15<sup>th</sup> June 2015

Decision Number: ED/39/2015

Number of Substances: 2 (total 165)

**Substance Name** 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with  $\geq 0.3\%$  of dihexyl phthalate  
**EC Number** 271-094-0, 272-013-1, 201-559-5  
**CAS Number** 68515-51-5, 68648-93-1  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]

**EC Number** -

**CAS Number** -

**Reason for inclusion** vPvB (Article 57 e)

**Publication** Press release ECHA/PR/14/18

**Date of inclusion** 17<sup>th</sup> December 2014

Decision Number: ED/108/2014

Number of Substances: 6 (total 163)

**Substance Name** Bis (2-ethylhexyl)phthalate (DEHP)  
**EC Number** 204-211-0  
**CAS Number** 117-81-7  
**Reason for inclusion** Equivalent level of concern having probable serious effects to the environment Article 57 f); Toxic for reproduction (article 57c)

**Sunset date** 21 February 2015 (Règlement (EU) No 143/2011 of 17 February 2011)

**Substance Name** 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)

**EC Number** 223-346-6

**CAS Number** 3846-71-7

**Reason for inclusion** PBT (Article 57 d); vPvB (Article 57 e)

**Substance Name** 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)

**EC Number** 239-622-4

**CAS Number** 15571-58-1

**Reason for inclusion** Toxic for reproduction (Article 57 c)



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**Substance Name** 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)

**EC Number** -

**CAS Number** -

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)

**EC Number** 247-384-8

**CAS Number** 25973-55-1

**Reason for inclusion** PBT (Article 57 d); vPvB (Article 57 e)

**Substance Name** Cadmium fluoride

**EC Number** 232-222-0

**CAS Number** 7790-79-6

**Reason for inclusion** 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)

**Substance Name** Cadmium sulphate

**EC Number** 233-331-6

**CAS Number** 10124-36-4, 31119-53-6

**Reason for inclusion** 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)

**Publication** Press release ECHA/PR/14/11

**Date of inclusion** 16<sup>th</sup> June 2014

Decision Number: ED/49/2014

Number of Substances: 4 (total 157)

**Substance Name** Cadmium chloride

**EC Number** 233-296-7

**CAS Number** 10108-64-2

**Reason for inclusion** 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)

**Substance Name** 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear

**EC Number** 271-093-5

**CAS Number** 68515-50-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Sodium peroxometaborate

**EC Number** 231-556-4

**CAS Number** 7632-04-4

**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Sodium perborate; perboric acid, sodium salt

**EC Number** 239-172-9; 234-390-0

**CAS Number** -

**Reason for inclusion** Toxic for reproduction (Article 57 c)





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**Publication** Press release ECHA/PR/13/40

**Date of inclusion** 16<sup>th</sup> December 2013

Decision Number: ED/121/2013  
Number of Substances: 7 (total 153)

**Substance Name** Cadmium sulphide  
**EC Number** 215-147-8  
**CAS Number** 1306-23-6  
**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)

**Substance Name** 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)  
**EC Number** 217-710-3  
**CAS Number** 1937-37-7  
**Reason for inclusion** Carcinogenic (Article 57a)

**Substance Name** Dihexyl phthalate  
**EC Number** 201-559-5  
**CAS Number** 84-75-3  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Imidazolidine-2-thione; (2-imidazoline-2-thiol)  
**EC Number** 202-506-9  
**CAS Number** 96-45-7  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Trixylyl phosphate  
**EC Number** 246-677-8  
**CAS Number** 25155-23-1  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)  
**EC Number** 209-358-4  
**CAS Number** 573-58-0  
**Reason for inclusion** Carcinogenic (Article 57a)

**Substance Name** Lead di(acetate)  
**EC Number** 206-104-4  
**CAS Number** 301-04-2  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Publication** Press release ECHA/PR/13/26

**Date of inclusion** 20<sup>th</sup> June 2013

Decision Number: ED/69/2013  
Number of Substances: 6 (total 146)

**Substance Name** Cadmium  
**EC Number** 231-152-8  
**CAS Number** 7440-43-9  
**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)



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**Substance Name** Ammonium pentadecafluorooctanoate (APFO)  
**EC Number** 223-320-4  
**CAS Number** 3825-26-1  
**Reason for inclusion** Toxic for reproduction (Article 57 c); PBT (Article 57 d)

**Substance Name** Pentadecafluorooctanoic acid (PFOA)  
**EC Number** 206-397-9  
**CAS Number** 335-67-1  
**Reason for inclusion** Toxic for reproduction (Article 57 c); PBT (Article 57 d)

**Substance Name** Dipentyl phthalate (DPP)  
**EC Number** 205-017-9  
**CAS Number** 131-18-0  
**Reason for inclusion** Toxic for reproduction (Article 57 c)  
**Sunset date** 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** 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]  
**EC Number** -  
**CAS Number** -  
**Reason for inclusion** Equivalent level of concern having probable serious effects to the environment (Article 57 f)  
**Sunset date** 4 January 2021 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** Cadmium oxide  
**EC Number** 215-146-2  
**CAS Number** 1306-19-0  
**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)

**Substance Name** Cadmium sulphide  
**EC Number** 215-147-8  
**CAS Number** 1306-23-6  
**Reason for inclusion** Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)

**Publication** Press release ECHA/PR/12/39  
**Date of inclusion** 19<sup>th</sup> December 2012

Decision Number ED/169/2012  
Number of Substances: 54 (total 140)

**Substance Name** Pyrochlore, antimony lead yellow  
**EC Number** 232-382-1  
**CAS Number** 8012-00-8  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 6-methoxy-m-toluidine (p-cresidine)  
**EC Number** 204-419-1  
**CAS Number** 120-71-8  
**Reason for inclusion** Carcinogenic (Article 57 a)

**Substance Name** Henicosfluoroundecanoic acid  
**EC Number** 218-165-4  
**CAS Number** 2058-94-8  
**Reason for inclusion** vPvB (Article 57 e)



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<b>Substance Name</b>	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]
<b>EC Number</b>	247-094-1 ; 243-072-0 ; 256-356-4 ; 260-566-1
<b>CAS Number</b>	25550-51-0 ; 19438-60-9 ; 48122-14-1 ; 57110-29-9
<b>Reason for inclusion</b>	Equivalent level of concern having probable serious effects to human health (Article 57 f)
<b>Substance Name</b>	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]
<b>EC Number</b>	201-604-9 ; 236-086-3 ; 238-009-9
<b>CAS Number</b>	85-42-7 ; 13149-00-3 ; 14166-21-3
<b>Reason for inclusion</b>	Equivalent level of concern having probable serious effects to human health (Article 57 f)
<b>Substance Name</b>	Dibutyltin dichloride (DBTC)
<b>EC Number</b>	211-670-0
<b>CAS Number</b>	683-18-1
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Lead bis(tetrafluoroborate)
<b>EC Number</b>	237-486-0
<b>CAS Number</b>	13814-96-5
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Lead dinitrate
<b>EC Number</b>	233-245-9
<b>CAS Number</b>	10099-74-8
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Silicic acid, lead salt
<b>EC Number</b>	234-363-3
<b>CAS Number</b>	11120-22-2
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	4-Aminoazobenzene
<b>EC Number</b>	200-453-6
<b>CAS Number</b>	60-09-3
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	Lead titanium zirconium oxide
<b>EC Number</b>	235-727-4
<b>CAS Number</b>	12626-81-2
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Lead monoxide (lead oxide)
<b>EC Number</b>	215-267-0
<b>CAS Number</b>	1317-36-8
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	o-Toluidine
<b>EC Number</b>	202-429-0
<b>CAS Number</b>	95-53-4
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
<b>EC Number</b>	421-150-7
<b>CAS Number</b>	143860-04-2
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)



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<b>Substance Name</b>	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) <i>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]</i>
<b>EC Number</b>	272-271-5
<b>CAS Number</b>	68784-75-8
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Trilead bis(carbonate)dihydroxide
<b>EC Number</b>	215-290-6
<b>CAS Number</b>	1319-46-6
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Furan
<b>EC Number</b>	203-727-3
<b>CAS Number</b>	110-00-9
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	N,N-dimethylformamide
<b>EC Number</b>	200-679-5
<b>CAS Number</b>	68-12-2
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]
<b>EC Number</b>	-
<b>CAS Number</b>	-
<b>Reason for inclusion</b>	Equivalent level of concern having probable serious effects to human health (Article 57 f)
<b>Sunset date</b>	4 January 2021 (Regulation (EU) No 999/2017 of 13 June 2017)
<b>Substance Name</b>	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]
<b>EC Number</b>	-
<b>CAS Number</b>	-
<b>Reason for inclusion</b>	Equivalent level of concern having probable serious effects to human health (Article 57 f)
<b>Substance Name</b>	4,4'-methylenedi-o-toluidine
<b>EC Number</b>	212-658-8
<b>CAS Number</b>	838-88-0
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	Diethyl sulphate
<b>EC Number</b>	200-589-6
<b>CAS Number</b>	64-67-5
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
<b>Substance Name</b>	Dimethyl sulphate
<b>EC Number</b>	201-058-1
<b>CAS Number</b>	77-78-1
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	Lead oxide sulfate
<b>EC Number</b>	234-853-7
<b>CAS Number</b>	12036-76-9
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)



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<b>Substance Name</b>	Lead titanium trioxide
<b>EC Number</b>	235-038-9
<b>CAS Number</b>	12060-00-3
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Acetic acid, lead salt, basic
<b>EC Number</b>	257-175-3
<b>CAS Number</b>	51404-69-4
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	[Phthalato(2-)]dioxotrilead
<b>EC Number</b>	273-688-5
<b>CAS Number</b>	69011-06-9
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)
<b>EC Number</b>	214-604-9
<b>CAS Number</b>	1163-19-5
<b>Reason for inclusion</b>	PBT (Article 57 d); vPvB (Article 57 e)
<b>Substance Name</b>	N-methylacetamide
<b>EC Number</b>	201-182-6
<b>CAS Number</b>	79-16-3
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Dinoseb (6-sec-butyl-2,4-dinitrophenol)
<b>EC Number</b>	201-861-7
<b>CAS Number</b>	88-85-7
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	1,2-Diethoxyethane
<b>EC Number</b>	211-076-1
<b>CAS Number</b>	629-14-1
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Tetralead trioxide sulphate
<b>EC Number</b>	235-380-9
<b>CAS Number</b>	12202-17-4
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	N-pentyl-isopentylphthalate
<b>EC Number</b>	-
<b>CAS Number</b>	776297-69-9
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Sunset date</b>	4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)
<b>Substance Name</b>	Dioxobis(stearato)trilead
<b>EC Number</b>	235-702-8
<b>CAS Number</b>	12578-12-0
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Tetraethyllead
<b>EC Number</b>	201-075-4
<b>CAS Number</b>	78-00-2
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Pentalead tetraoxide sulphate
<b>EC Number</b>	235-067-7
<b>CAS Number</b>	12065-90-6
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)

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<b>Substance Name</b>	Pentacosfluorotridecanoic acid
<b>EC Number</b>	276-745-2
<b>CAS Number</b>	72629-94-8
<b>Reason for inclusion</b>	vPvB (Article 57 e)
<b>Substance Name</b>	Tricosfluorododecanoic acid
<b>EC Number</b>	206-203-2
<b>CAS Number</b>	307-55-1
<b>Reason for inclusion</b>	vPvB (Article 57 e)
<b>Substance Name</b>	Heptacosfluorotetradecanoic acid
<b>EC Number</b>	206-803-4
<b>CAS Number</b>	376-06-7
<b>Reason for inclusion</b>	vPvB (Article 57 e)
<b>Substance Name</b>	1-bromopropane (n-propyl bromide)
<b>EC Number</b>	203-445-0
<b>CAS Number</b>	106-94-5
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Sunset date</b>	4 July 2017 (Regulation (EU) No 999/2017 of 13 June 2017)
<b>Substance Name</b>	Methoxyacetic acid
<b>EC Number</b>	210-894-6
<b>CAS Number</b>	625-45-6
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	4-methyl-m-phenylenediamine (toluene-2,4-diamine)
<b>EC Number</b>	202-453-1
<b>CAS Number</b>	95-80-7
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	Methyloxirane (Propylene oxide)
<b>EC Number</b>	200-879-2
<b>CAS Number</b>	75-56-9
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
<b>Substance Name</b>	Trilead dioxide phosphonate
<b>EC Number</b>	235-252-2
<b>CAS Number</b>	12141-20-7
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	o-aminoazotoluene
<b>EC Number</b>	202-591-2
<b>CAS Number</b>	97-56-3
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
<b>EC Number</b>	284-032-2
<b>CAS Number</b>	84777-06-0
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Sunset date</b>	4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)
<b>Substance Name</b>	4,4'-oxydianiline and its salts
<b>EC Number</b>	202-977-0
<b>CAS Number</b>	101-80-4
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)



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**Substance Name** Orange lead (lead tetroxide)  
**EC Number** 215-235-6  
**CAS Number** 1314-41-6  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Biphenyl-4-ylamine  
**EC Number** 202-177-1  
**CAS Number** 92-67-1  
**Reason for inclusion** Carcinogenic (Article 57 a)

**Substance Name** Diisopentylphthalate  
**EC Number** 210-088-4  
**CAS Number** 605-50-5  
**Reason for inclusion** Toxic for reproduction (Article 57 c)  
**Sunset date** 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** Fatty acids, C16-18, lead salts  
**EC Number** 292-966-7  
**CAS Number** 91031-62-8  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  
**EC Number** 204-650-8  
**CAS Number** 123-77-3  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Sulfurous acid, lead salt, dibasic  
**EC Number** 263-467-1  
**CAS Number** 62229-08-7  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Lead cyanamidate  
**EC Number** 244-073-9  
**CAS Number** 20837-86-9  
**Reason for inclusion** Carcinogenic (Article 57 a)

**Publication** Press release ECHA/PR/12/16

**Date of inclusion** 18th June 2012

**Decision Number** ED/87/2012

**Number of Substances:** 13 (total 86)

**Substance Name** 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  
**EC Number** 203-977-3  
**CAS Number** 112-49-2  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  
**EC Number** 203-794-9  
**CAS Number** 110-71-4  
**Reason for inclusion** Toxic for reproduction (Article 57 c)

**Substance Name** Diboron trioxide  
**EC Number** 215-125-8  
**CAS Number** 1303-86-2  
**Reason for inclusion** Toxic for reproduction (Article 57 c)



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<b>Substance Name</b>	Formamide
<b>EC Number</b>	200-842-0
<b>CAS Number</b>	75-12-7
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	Lead(II) bis(methanesulfonate)
<b>EC Number</b>	401-750-5
<b>CAS Number</b>	17570-76-2
<b>Reason for inclusion</b>	Toxic for reproduction (Article 57 c)
<b>Substance Name</b>	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)
<b>EC Number</b>	219-514-3
<b>CAS Number</b>	2451-62-9
<b>Reason for inclusion</b>	Mutagenic (Article 57 b)
<b>Substance Name</b>	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)
<b>EC Number</b>	423-400-0
<b>CAS Number</b>	59653-74-6
<b>Reason for inclusion</b>	Mutagenic (Article 57 b)
<b>Substance Name</b>	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)
<b>EC Number</b>	202-027-5
<b>CAS Number</b>	90-94-8
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)
<b>EC Number</b>	202-959-2
<b>CAS Number</b>	101-61-1
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	[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)]
<b>EC Number</b>	219-943-6
<b>CAS Number</b>	2580-56-5
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	[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)]
<b>EC Number</b>	208-953-6
<b>CAS Number</b>	548-62-9
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	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)]
<b>EC Number</b>	209-218-2
<b>CAS Number</b>	561-41-1
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)
<b>Substance Name</b>	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)]
<b>EC Number</b>	229-851-8
<b>CAS Number</b>	6786-83-0
<b>Reason for inclusion</b>	Carcinogenic (Article 57 a)





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**Publication** Press release ECHA/PR/11/26

**Date of inclusion** 19<sup>th</sup> December 2011

**Decision Number** ED/77/2011

**Number of Substances:** 20

**Substance Name** Zirconia Aluminosilicate Refractory Ceramic Fibres  
*are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the 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 (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight*

**EC Number** -  
**CAS Number** -  
**Reason for inclusion** Carcinogenic (article 57 a)

**Substance Name** Calcium arsenate  
**EC Number** 231-904-5  
**CAS Number** 7778-44-1  
**Reason for inclusion** Carcinogenic (article 57 a)

**Substance Name** Bis(2-methoxyethyl) ether  
**EC Number** 203-924-4  
**CAS Number** 111-96-6  
**Reason for inclusion** Toxic for reproduction (article 57 c)  
**Sunset date** 22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)

**Substance Name** Aluminosilicate Refractory Ceramic Fibres  
*are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight*

**EC Number** -  
**CAS Number** -  
**Reason for inclusion** Carcinogenic (article 57 a)

**Substance Name** Potassium hydroxyoctaoxidizincatedichromate  
**EC Number** 234-329-8  
**CAS Number** 11103-86-9  
**Reason for inclusion** Carcinogenic (article 57 a)  
**Sunset date** 22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)

**Substance Name** Lead dipicrate  
**EC Number** 229-335-2  
**CAS Number** 6477-64-1  
**Reason for inclusion** Toxic for reproduction (article 57 c)

**Substance Name** N,N-dimethylacetamide  
**EC Number** 204-826-4  
**CAS Number** 127-19-5  
**Reason for inclusion** Toxic for reproduction (article 57 c)



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<b>Substance Name</b>	Arsenic acid
<b>EC Number</b>	231-901-9
<b>CAS Number</b>	7778-39-4
<b>Reason for inclusion</b>	Carcinogenic (article 57 a)
<b><u>Sunset date</u></b>	22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)
<b>Substance Name</b>	2-Methoxyaniline; o-Anisidine
<b>EC Number</b>	201-963-1
<b>CAS Number</b>	90-04-0
<b>Reason for inclusion</b>	Carcinogenic (article 57 a)
<b>Substance Name</b>	Trilead diarsenate
<b>EC Number</b>	222-979-5
<b>CAS Number</b>	3687-31-8
<b>Reason for inclusion</b>	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
<b>Substance Name</b>	1,2-dichloroethane
<b>EC Number</b>	203-458-1
<b>CAS Number</b>	107-06-2
<b>Reason for inclusion</b>	Carcinogenic (article 57 a)
<b><u>Sunset date</u></b>	22 November 2017 (Regulation (EU) No 895/2014 of 14 August 2014)
<b>Substance Name</b>	Pentazinc chromate octahydroxide
<b>EC Number</b>	256-418-0
<b>CAS Number</b>	49663-84-5
<b>Reason for inclusion</b>	Carcinogenic (article 57 a)
<b><u>Sunset date</u></b>	22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)
<b>Substance Name</b>	4-(1,1,3,3-tetramethylbutyl)phenol
<b>EC Number</b>	205-426-2
<b>CAS Number</b>	140-66-9
<b>Reason for inclusion</b>	Equivalent level of concern having probable serious effects to the environment(article 57f)
<b>Substance Name</b>	Formaldehyde, oligomeric reaction products with aniline
<b>EC Number</b>	500-036-1
<b>CAS Number</b>	25214-70-4
<b>Reason for inclusion</b>	Carcinogenic (article 57 a)
<b><u>Sunset date</u></b>	22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)
<b>Substance Name</b>	Bis(2-methoxyethyl) phthalate
<b>EC Number</b>	204-212-6
<b>CAS Number</b>	117-82-8
<b>Reason for inclusion</b>	Toxic for reproduction (article 57 c)
<b><u>Sunset date</u></b>	4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)
<b>Substance Name</b>	Lead diazide, Lead azide
<b>EC Number</b>	236-542-1
<b>CAS Number</b>	13424-46-9
<b>Reason for inclusion</b>	Toxic for reproduction (article 57 c)
<b>Substance Name</b>	Lead styphnate
<b>EC Number</b>	239-290-0
<b>CAS Number</b>	15245-44-0
<b>Reason for inclusion</b>	Toxic for reproduction (article 57 c)
<b>Substance Name</b>	2,2'-dichloro-4,4'-methylenedianiline
<b>EC Number</b>	202-918-9
<b>CAS Number</b>	101-14-4
<b>Reason for inclusion</b>	Carcinogenic (article 57 a)
<b><u>Sunset date</u></b>	22 November 2017 (Regulation (EU) No 895/2014 of 14 August 2014)



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**Substance Name** Phenolphthalein  
**EC Number** 201-004-7  
**CAS Number** 77-09-8  
**Reason for inclusion** Carcinogenic (article 57 a)

**Substance Name** Dichromium tris(chromate)  
**EC Number** 246-356-2  
**CAS Number** 24613-89-6  
**Reason for inclusion** Carcinogenic (article 57 a)  
**Sunset date** 22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)

**Publication** Press release ECHA/PR/11/15

**Date of inclusion** 20<sup>th</sup> June 2011

**Decision number** ED/31/2011

**Number of Substances:** 7

**Substance Name** Cobalt dichloride (update of entry from 28<sup>th</sup> October 2008)  
**EC Number** 231-589-4  
**CAS Number** 7646-79-9  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)  
**Decision number** ED/31/2011 / ED/67/2008

**Substance Name** 1,2,3-Trichloropropane  
**EC Number** 202-486-1  
**CAS Number** 96-18-4  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Substance Name** 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters  
**EC Number** 271-084-6  
**CAS Number** 68515-42-4  
**Reason for inclusion** Toxic for reproduction (article 57 c)  
**Sunset date** 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** 1-Methyl-2-pyrrolidone  
**EC Number** 212-828-1  
**CAS Number** 872-50-4  
**Reason for inclusion** Toxic for reproduction (article 57 c)

**Substance Name** Hydrazine  
**EC Number** 206-114-9  
**CAS Number** 302-01-2, 7803-57-8  
**Reason for inclusion** Carcinogenic (article 57 a)

**Substance Name** Strontium chromate  
**EC Number** 232-142-6  
**CAS Number** 7789-06-2  
**Reason for inclusion** Carcinogenic (article 57 a)  
**Sunset date** 22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)

**Substance Name** 2-Ethoxyethyl acetate  
**EC Number** 203-839-2  
**CAS Number** 111-15-9  
**Reason for inclusion** Toxic for reproduction (article 57 c)



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**Substance Name** 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich  
**EC Number** 276-158-1  
**CAS Number** 71888-89-6  
**Reason for inclusion** Toxic for reproduction (article 57 c)  
**Sunset date** 4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Publication** Press release ECHA/PR/10/26  
**Date of inclusion** 15<sup>th</sup> December 2010

**Decision number** ED/95/2010  
**Number of Substances:** 8

**Substance Name** Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid  
**EC Number** 231-801-5, 236-881-5  
**CAS Number** 7738-94-5, 13530-68-2  
**Reason for inclusion** Carcinogenic (article 57 a)  
**Sunset date** 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Cobalt(II) carbonate  
**EC Number** 208-169-4  
**CAS Number** 513-79-1  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Substance Name** Cobalt(II) diacetate  
**EC Number** 200-755-8  
**CAS Number** 71-48-7  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Substance Name** 2-Methoxyethanol  
**EC Number** 203-713-7  
**CAS Number** 109-86-4  
**Reason for inclusion** Toxic for reproduction (article 57c)

**Substance Name** Chromium trioxide  
**EC Number** 215-607-8  
**CAS Number** 1333-82-0  
**Reason for inclusion** Carcinogenic and mutagenic (articles 57 a and 57 b)  
**Sunset date** 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Cobalt(II) dinitrate  
**EC Number** 233-402-1  
**CAS Number** 10141-05-6  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Substance Name** Cobalt(II) sulphate  
**EC Number** 233-334-2  
**CAS Number** 10124-43-3  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Substance Name** 2-Ethoxyethanol  
**EC Number** 203-804-1  
**CAS Number** 110-80-5  
**Reason for inclusion** Toxic for reproduction (article 57c)



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**Publication** Press release ECHA/PR/10/12

**Date of inclusion** 18<sup>th</sup> June 2010

**Decision number** ED/30/2010

**Number of Substances:** 8

**Substance Name** Disodium tetraborate, anhydrous  
**EC Number** 215-540-4  
**CAS Number** 1303-96-4, 1330-43-4, 12179-04-3  
**Reason for inclusion** Toxic for reproduction (article 57c)

**Substance Name** Tetraboron disodium heptaoxide, hydrate  
**EC Number** 235-541-3  
**CAS Number** 12267-73-1  
**Reason for inclusion** Toxic for reproduction (article 57c)

**Substance Name** Potassium dichromate  
**EC Number** 231-906-6  
**CAS Number** 7778-50-9  
**Reason for inclusion** Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)  
**Sunset date** 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Ammonium dichromate  
**EC Number** 232-143-1  
**CAS Number** 7789-09-5  
**Reason for inclusion** Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)  
**Sunset date** 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Trichloroethylene  
**EC Number** 201-167-4  
**CAS Number** 79-01-6  
**Reason for inclusion** Carcinogenic (article 57 a)  
**Sunset date** 21 April 2016 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Sodium chromate  
**EC Number** 231-889-5  
**CAS Number** 7775-11-3  
**Reason for inclusion** Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)  
**Sunset date** 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Potassium chromate  
**EC Number** 232-140-5  
**CAS Number** 7789-00-6  
**Reason for inclusion** Carcinogenic and mutagenic (articles 57 a and 57 b)  
**Sunset date** 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** Boric acid  
**EC Number** 233-139-2, 234-343-4  
**CAS Number** 10043-35-3, 11113-50-1  
**Reason for inclusion** Toxic for reproduction (article 57 c)

**Publication** Press release ECHA/PR/10/05

**Date of inclusion** 30<sup>th</sup> March 2010

**Decision number** ED/68/2009

**Number of Substances:** 1



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**Substance Name** Acrylamide  
**EC Number** 201-173-7  
**CAS Number** 79-06-1  
**Reason for inclusion** Carcinogenic and mutagenic (articles 57 a and 57 b)

**Publication** Press release ECHA/PR/10/01

**Date of inclusion** 13<sup>th</sup> January 2010

**Decision number** ED/68/2009

**Number of Substances:** 14

**Substance Name** Lead chromate molybdate sulphate red (C.I. Pigment Red 104)  
**EC Number** 235-759-9  
**CAS Number** 12656-85-8  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)  
**Sunset date** 21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Lead chromate  
**EC Number** 231-846-0  
**CAS Number** 7758-97-6  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)  
**Sunset date** 21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Anthracene oil, anthracene-low  
**EC Number** 292-604-8  
**CAS Number** 90640-82-7  
**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

**Substance Name** 2,4-Dinitrotoluene  
**EC Number** 204-450-0  
**CAS Number** 121-14-2  
**Reason for inclusion** Carcinogenic (article 57a)  
**Sunset date** 21 August 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Tris(2-chloroethyl)phosphate  
**EC Number** 204-118-5  
**CAS Number** 115-96-8  
**Reason for inclusion** Toxic for reproduction (article 57c)  
**Sunset date** 21 August 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Anthracene oil, anthracene paste, anthracene fraction  
**EC Number** 295-275-9  
**CAS Number** 91995-15-2  
**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

**Substance Name** Anthracene oil  
**EC Number** 292-602-7  
**CAS Number** 90640-80-5  
**Reason for inclusion** Carcinogenic<sup>1</sup>, PBT and vPvB (articles 57a, 57d and 57e)  
**Sunset date** 4 October 2020 (Regulation (EU) No 999/2017 of 13 June 2017)



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**Substance Name** 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: a) Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub> are present within the following concentration ranges: Al<sub>2</sub>O<sub>3</sub>: 43.5 – 47 % w/w, and SiO<sub>2</sub>: 49.5 – 53.5 % w/w, or Al<sub>2</sub>O<sub>3</sub>: 45.5 – 50.5 % w/w, and SiO<sub>2</sub>: 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).*

**EC Number** Extracted from Index no.: 650-017-00-8

**CAS Number** -

**Reason for inclusion** Carcinogenic (article 57a)

**Substance Name** 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: a) Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub> and ZrO<sub>2</sub> are present within the following concentration ranges: Al<sub>2</sub>O<sub>3</sub>: 35 – 36 % w/w, and SiO<sub>2</sub>: 47.5 – 50 % w/w, and ZrO<sub>2</sub>: 15 - 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).*

**EC Number** Extracted from Index no. 650-017-00-8

**CAS Number** -

**Reason for inclusion** Carcinogenic (article 57a)

**Substance Name** Pitch, coal tar, high temp.

**EC Number** 266-028-2

**CAS Number** 65996-93-2

**Reason for inclusion** Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)

**Sunset date** 4 October 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

**Substance Name** Lead sulfochromate yellow (C.I. Pigment Yellow 34)

**EC Number** 215-693-7

**CAS Number** 1344-37-2

**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Sunset date** 21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Anthracene oil, anthracene paste, distn. lights

**EC Number** 295-278-5

**CAS Number** 91995-17-4

**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

**Substance Name** Diisobutyl phthalate (DIBP)

**EC Number** 201-553-2

**CAS Number** 84-69-5

**Reason for inclusion** Toxic for reproduction (article 57c)

**Sunset date** 21 February 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Anthracene oil, anthracene paste

**EC Number** 292-603-2

**CAS Number** 90640-81-6

**Reason for inclusion** Carcinogenic<sup>2</sup>, mutagenic<sup>3</sup>, PBT and vPvB (articles 57a, 57b, 57d and 57e)

**Publication** Press release ECHA/PR/08/38

**Date of inclusion** 28<sup>th</sup> October 2008

**Decision number** ED/67/2008

**Number of Substances:** 15

**Substance Name** Cobalt dichloride (updated 20<sup>th</sup> June 2011)

**EC Number** 231-589-4

**CAS Number** 7646-79-9

**Reason for inclusion** Carcinogenic (article 57a)



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**Substance Name** Sodium dichromate  
**EC Number** 234-190-3  
**CAS Number** 7789-12-0, 10588-01-9  
**Reason for inclusion** Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)  
**Sunset date** 21 September 2017 (Regulation (EU) No 348/2013 of 17 April 2013)

**Substance Name** 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)  
**EC Number** 201-329-4  
**CAS Number** 81-15-2  
**Reason for inclusion** vPvB (article 57e)  
**Sunset date** 21 August 2014 (Regulation (EU) No 143/2011 of 17 February 2011)

**Substance Name** 4,4'- Diaminodiphenylmethane (MDA)  
**EC Number** 202-974-4  
**CAS Number** 101-77-9  
**Reason for inclusion** Carcinogenic (article 57a)  
**Sunset date** 21 August 2014 (Regulation (EU) No 143/2011 of 17 February 2011)

**Substance Name** Bis(tributyltin)oxide (TBTO)  
**EC Number** 200-268-0  
**CAS Number** 56-35-9  
**Reason for inclusion** PBT (article 57d)

**Substance Name** Triethyl arsenate  
**EC Number** 427-700-2  
**CAS Number** 15606-95-8  
**Reason for inclusion** Carcinogenic (article 57a)

**Substance Name** Dibutyl phthalate (DBP)  
**EC Number** 201-557-4  
**CAS Number** 84-74-2  
**Reason for inclusion** Toxic for reproduction (article 57c)  
**Sunset date** 21 February 2015 (Regulation (EU) No 143/2011 of 17 February 2011)

**Substance Name** Diarsenic trioxide  
**EC Number** 215-481-4  
**CAS Number** 1327-53-3  
**Reason for inclusion** Carcinogenic (article 57a)  
**Sunset date** 21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)

**Substance Name** Anthracene  
**EC Number** 204-371-1  
**CAS Number** 120-12-7  
**Reason for inclusion** PBT (article 57d)

**Substance Name** Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)  
**EC Number** 287-476-5  
**CAS Number** 85535-84-8  
**Reason for inclusion** PBT and vPvB (articles 57 d and 57 e)

**Substance Name** Lead hydrogen arsenate  
**EC Number** 232-064-2  
**CAS Number** 7784-40-9  
**Reason for inclusion** Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

**Substance Name** Benzyl butyl phthalate (BBP)  
**EC Number** 201-622-7  
**CAS Number** 85-68-7  
**Reason for inclusion** Toxic for reproduction (article 57c)  
**Sunset date** 21 February 2015 (Regulation (EU) No 143/2011 of 17 February 2011)





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<b>Substance Name</b>	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane
<b>EC Number</b>	247-148-4 and 221-695-9
<b>CAS Number</b>	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)
<b>Reason for inclusion</b>	PBT (article 57d)
<b>Sunset date</b>	21 August 2015 (Regulation (EU) No 143/2011 of 17 February 2011)
<b>Substance Name</b>	Diarsenic pentoxide
<b>EC Number</b>	215-116-9
<b>CAS Number</b>	1303-28-2
<b>Reason for inclusion</b>	Carcinogenic (article 57a)
<b>Sunset date</b>	21 May 2015 (Regulation (EU) No 125/2012 of 14 February 2012)
<b>Substance Name</b>	Bis (2-ethylhexyl)phthalate (DEHP)
<b>EC Number</b>	204-211-0
<b>CAS Number</b>	117-81-7
<b>Reason for inclusion</b>	Toxic for reproduction (article 57c)
<b>Sunset date</b>	21 February 2015 (Regulation (EU) No 143/2011 of 17 February 2011)

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**EC number, CAS number:** the EC number includes both anhydrous and hydrated forms of a substance and consequently the entries cover both these forms. The CAS number included may be for the anhydrous form only, and therefore the CAS number shown does not always describe the entry accurately.

**IUCLID 5 Substance Dataset:** these are partly pre-filled substance data sets in IUCLID 5.3 format. They are provided as a support for importers or producers of articles preparing notifications for substances in articles. The notifying company remains, however, solely responsible for the appropriateness and correctness of the information submitted in the notification.

- 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).]