



DuPont Performance Materials Operations Sàrl
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24 July 2019

Customer Letter 8 articles
Status: 16 July 2019

Dear Customer,

Subject: Absence of REACH 'Candidate List' substances in Kalrez® except Kalrez® 1058 and Kalrez® 3065

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 & Industrial 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 & Industrial confirms that the above products do not contain any of the substances listed in the 'Candidate List'* as last amended on 16th July 2019 in a concentration above 0.1% weight by weight (w/w).

DuPont Transportation & Industrial 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 13th 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>



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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

Publication	Press release ECHA/PR/19/12
Date of inclusion	16 th July 2019
Decision Number:	ED/71/2019
Number of Substances:	4 (total 201)
Substance Name	2-methoxyethyl acetate
EC Number	203-772-9
CAS Number	110-49-6
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)
EC Number	-
CAS Number	-
Reason for inclusion	Endocrine disrupting properties (Article 57 f)
Substance Name	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)
EC Number	-
CAS Number	-
Reason for inclusion	Equivalent level of concern having probable serious effects to environment and human health (Article 57f)
Substance Name	4-tert-butylphenol
EC Number	202-679-0
CAS Number	98-54-4
Reason for inclusion	Endocrine disrupting properties (Article 57 f)
Publication	Press release ECHA/PR/19/01
Date of inclusion	15 th January 2019
Decision Number:	ED/88/2018
Number of Substances:	6 (total 197)
Substance Name	2,2-bis(4'-hydroxyphenyl)-4-methylpentane
EC Number	401-720-1
CAS Number	6807-17-6
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	Benzo[k]fluoranthene
EC Number	205-916-6
CAS Number	207-08-9
Reason for inclusion	Carcinogen (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)
Substance Name	Fluoranthene
EC Number	205-912-4
CAS Number	206-44-0
Reason for inclusion	PBT (Article 57 d), vPvB (Article 57 e)



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Substance Name Phenanthrene
EC Number 201-581-5
CAS Number 85-01-8
Reason for inclusion vPvB (Article 57 e)

Substance Name Pyrene
EC Number 204-927-3
CAS Number 129-00-0
Reason for inclusion PBT (Article 57 d), vPvB (Article 57 e)

Substance Name 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one
EC Number 239-139-9
CAS Number 15087-24-8
Reason for inclusion Endocrine disrupting properties (Article 57 f)

Publication Press release ECHA/PR/18/11
Date of inclusion 27th June 2018

Decision Number: ED/61/2018
Number of Substances: 10 (total 191)

Substance Name Octamethylcyclotetrasiloxane (D4)
EC Number 209-136-7
CAS Number 556-67-2
Reason for inclusion PBT (Article 57 d), vPvB (Article 57 e)

Substance Name Decamethylcyclopentasiloxane (D5)
EC Number 208-764-9
CAS Number 541-02-6
Reason for inclusion PBT (Article 57 d), vPvB (Article 57 e)

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)



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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 15th 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)

Substance Name Benz[a]anthracene
EC Number 200-280-6
CAS Number 56-55-3
Reason for inclusion Carcinogenic (Article 57 a), PBT (Article 57 d), vPvB (Article 57 e)

Substance Name Cadmium nitrate
EC Number 233-710-6
CAS Number 10325-94-7
Reason for inclusion Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity after repeated exposure (Article 57 f)

Substance Name Cadmium hydroxide
EC Number 244-168-5
CAS Number 21041-95-2
Reason for inclusion Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity after repeated exposure (Article 57 f)

Substance Name Cadmium carbonate
EC Number 208-168-9
CAS Number 513-78-0
Reason for inclusion Carcinogenic (Article 57 a), Mutagenic (Article 57 b), Specific target organ toxicity after repeated exposure (Article 57 f)



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Substance Name 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.1^{6,9}.0^{2,13}.0^{5,10}]octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]
EC Number -
CAS Number -
Reason for inclusion vPvB (Article 57 e)

Substance Name 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]
EC Number -
CAS Number -
Reason for inclusion Endocrine disrupting properties (Article 57 f)

Publication Press release ECHA/PR/17/14
Date of inclusion 07th 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 12th January 2017
Decision Number: ED/01/2017
Number of Substances: 4 (total 173)

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)



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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 20th 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 17th 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)

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)



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Publication Press release ECHA/PR/15/09
Date of inclusion 15th 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 17th 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)

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)



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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 16th 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)

Publication Press release ECHA/PR/13/40

Date of inclusion 16th 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)



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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 20th 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)

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)



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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 19th 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 Henicosafluoroundecanoic acid
EC Number 218-165-4
CAS Number 2058-94-8
Reason for inclusion vPvB (Article 57 e)

Substance Name 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]
EC Number 247-094-1 ; 243-072-0 ; 256-356-4 ; 260-566-1
CAS Number 25550-51-0 ; 19438-60-9 ; 48122-14-1 ; 57110-29-9
Reason for inclusion Equivalent level of concern having probable serious effects to human health (Article 57 f)



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



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Substance Name Silicic acid (H₂Si₂O₅), 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]

EC Number 272-271-5

CAS Number 68784-75-8

Reason for inclusion Toxic for reproduction (Article 57 c)

Substance Name Trilead bis(carbonate)dihydroxide

EC Number 215-290-6

CAS Number 1319-46-6

Reason for inclusion Toxic for reproduction (Article 57 c)

Substance Name Furan

EC Number 203-727-3

CAS Number 110-00-9

Reason for inclusion Carcinogenic (Article 57 a)

Substance Name N,N-dimethylformamide

EC Number 200-679-5

CAS Number 68-12-2

Reason for inclusion Toxic for reproduction (Article 57 c)

Substance Name 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]

EC Number -

CAS Number -

Reason for inclusion Equivalent level of concern having probable serious effects to human health (Article 57 f)

Sunset date 4 January 2021 (Regulation (EU) No 999/2017 of 13 June 2017)

Substance Name 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]

EC Number -

CAS Number -

Reason for inclusion Equivalent level of concern having probable serious effects to human health (Article 57 f)

Substance Name 4,4'-methylenedi-o-toluidine

EC Number 212-658-8

CAS Number 838-88-0

Reason for inclusion Carcinogenic (Article 57 a)

Substance Name Diethyl sulphate

EC Number 200-589-6

CAS Number 64-67-5

Reason for inclusion Carcinogenic (Article 57 a); Mutagenic (Article 57 b)

Substance Name Dimethyl sulphate

EC Number 201-058-1

CAS Number 77-78-1

Reason for inclusion Carcinogenic (Article 57 a)

Substance Name Lead oxide sulfate

EC Number 234-853-7

CAS Number 12036-76-9

Reason for inclusion Toxic for reproduction (Article 57 c)



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



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Substance Name	Pentalead tetraoxide sulphate
EC Number	235-067-7
CAS Number	12065-90-6
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	Pentacosafuorotridecanoic acid
EC Number	276-745-2
CAS Number	72629-94-8
Reason for inclusion	vPvB (Article 57 e)
Substance Name	Tricosafuorododecanoic acid
EC Number	206-203-2
CAS Number	307-55-1
Reason for inclusion	vPvB (Article 57 e)
Substance Name	Heptacosafuorotetradecanoic acid
EC Number	206-803-4
CAS Number	376-06-7
Reason for inclusion	vPvB (Article 57 e)
Substance Name	1-bromopropane (n-propyl bromide)
EC Number	203-445-0
CAS Number	106-94-5
Reason for inclusion	Toxic for reproduction (Article 57 c)
Sunset date	4 July 2017 (Regulation (EU) No 999/2017 of 13 June 2017)
Substance Name	Methoxyacetic acid
EC Number	210-894-6
CAS Number	625-45-6
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	4-methyl-m-phenylenediamine (toluene-2,4-diamine)
EC Number	202-453-1
CAS Number	95-80-7
Reason for inclusion	Carcinogenic (Article 57 a)
Substance Name	Methyloxirane (Propylene oxide)
EC Number	200-879-2
CAS Number	75-56-9
Reason for inclusion	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
Substance Name	Trilead dioxide phosphonate
EC Number	235-252-2
CAS Number	12141-20-7
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	o-aminoazotoluene
EC Number	202-591-2
CAS Number	97-56-3
Reason for inclusion	Carcinogenic (Article 57 a)
Substance Name	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
EC Number	284-032-2
CAS Number	84777-06-0
Reason for inclusion	Toxic for reproduction (Article 57 c)
Sunset date	4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)



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Substance Name 4,4'-oxydianiline and its salts
EC Number 202-977-0
CAS Number 101-80-4
Reason for inclusion Carcinogenic (Article 57 a); Mutagenic (Article 57 b)

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)



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Substance Name	Diboron trioxide
EC Number	215-125-8
CAS Number	1303-86-2
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	Formamide
EC Number	200-842-0
CAS Number	75-12-7
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	Lead(II) bis(methanesulfonate)
EC Number	401-750-5
CAS Number	17570-76-2
Reason for inclusion	Toxic for reproduction (Article 57 c)
Substance Name	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)
EC Number	219-514-3
CAS Number	2451-62-9
Reason for inclusion	Mutagenic (Article 57 b)
Substance Name	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)
EC Number	423-400-0
CAS Number	59653-74-6
Reason for inclusion	Mutagenic (Article 57 b)
Substance Name	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)
EC Number	202-027-5
CAS Number	90-94-8
Reason for inclusion	Carcinogenic (Article 57 a)
Substance Name	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)
EC Number	202-959-2
CAS Number	101-61-1
Reason for inclusion	Carcinogenic (Article 57 a)
Substance Name	[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)]
EC Number	219-943-6
CAS Number	2580-56-5
Reason for inclusion	Carcinogenic (Article 57 a)
Substance Name	[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)]
EC Number	208-953-6
CAS Number	548-62-9
Reason for inclusion	Carcinogenic (Article 57 a)
Substance Name	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)]
EC Number	209-218-2
CAS Number	561-41-1
Reason for inclusion	Carcinogenic (Article 57 a)



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Substance Name α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]
EC Number 229-851-8
CAS Number 6786-83-0
Reason for inclusion Carcinogenic (Article 57 a)

Publication Press release ECHA/PR/11/26

Date of inclusion 19th 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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) 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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight

EC Number -

CAS Number -

Reason for inclusion Carcinogenic (article 57 a)

Substance Name Potassium hydroxyoctaoxodizincatedichromate
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)



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Substance Name	N,N-dimethylacetamide
EC Number	204-826-4
CAS Number	127-19-5
Reason for inclusion	Toxic for reproduction (article 57 c)
Substance Name	Arsenic acid
EC Number	231-901-9
CAS Number	7778-39-4
Reason for inclusion	Carcinogenic (article 57 a)
<u>Sunset date</u>	22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)
Substance Name	2-Methoxyaniline; o-Anisidine
EC Number	201-963-1
CAS Number	90-04-0
Reason for inclusion	Carcinogenic (article 57 a)
Substance Name	Trilead diarsenate
EC Number	222-979-5
CAS Number	3687-31-8
Reason for inclusion	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Substance Name	1,2-dichloroethane
EC Number	203-458-1
CAS Number	107-06-2
Reason for inclusion	Carcinogenic (article 57 a)
<u>Sunset date</u>	22 November 2017 (Regulation (EU) No 895/2014 of 14 August 2014)
Substance Name	Pentazinc chromate octahydroxide
EC Number	256-418-0
CAS Number	49663-84-5
Reason for inclusion	Carcinogenic (article 57 a)
<u>Sunset date</u>	22 January 2019 (Regulation (EU) No 895/2014 of 14 August 2014)
Substance Name	4-(1,1,3,3-tetramethylbutyl)phenol
EC Number	205-426-2
CAS Number	140-66-9
Reason for inclusion	Equivalent level of concern having probable serious effects to the environment(article 57f)
Substance Name	Formaldehyde, oligomeric reaction products with aniline
EC Number	500-036-1
CAS Number	25214-70-4
Reason for inclusion	Carcinogenic (article 57 a)
<u>Sunset date</u>	22 August 2017 (Regulation (EU) No 895/2014 of 14 August 2014)
Substance Name	Bis(2-methoxyethyl) phthalate
EC Number	204-212-6
CAS Number	117-82-8
Reason for inclusion	Toxic for reproduction (article 57 c)
<u>Sunset date</u>	4 July 2020 (Regulation (EU) No 999/2017 of 13 June 2017)
Substance Name	Lead diazide, Lead azide
EC Number	236-542-1
CAS Number	13424-46-9
Reason for inclusion	Toxic for reproduction (article 57 c)
Substance Name	Lead styphnate
EC Number	239-290-0
CAS Number	15245-44-0
Reason for inclusion	Toxic for reproduction (article 57 c)



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Substance Name 2,2'-dichloro-4,4'-methylenedianiline
EC Number 202-918-9
CAS Number 101-14-4
Reason for inclusion Carcinogenic (article 57 a)
Sunset date 22 November 2017 (Regulation (EU) No 895/2014 of 14 August 2014)

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 20th June 2011

Decision number ED/31/2011

Number of Substances: 7

Substance Name Cobalt dichloride (update of entry from 28th 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)



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

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 15th 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)



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

Publication Press release ECHA/PR/10/12
Date of inclusion 18th 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)



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Publication Press release ECHA/PR/10/05

Date of inclusion 30th March 2010

Decision number ED/68/2009

Number of Substances: 1

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 13th 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 Carcinogenic², mutagenic³, 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 Carcinogenic², mutagenic³, PBT and vPvB (articles 57a, 57b, 57d and 57e)



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Substance Name Anthracene oil
EC Number 292-602-7
CAS Number 90640-80-5
Reason for inclusion Carcinogenic¹, PBT and vPvB (articles 57a, 57d and 57e)
Sunset date 4 October 2020 (Regulation (EU) No 999/2017 of 13 June 2017)

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) Al₂O₃ and SiO₂ are present within the following concentration ranges: Al₂O₃: 43.5 – 47 % w/w, and SiO₂: 49.5 – 53.5 % w/w, or Al₂O₃: 45.5 – 50.5 % w/w, and SiO₂: 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) Al₂O₃, SiO₂ and ZrO₂ are present within the following concentration ranges: Al₂O₃: 35 – 36 % w/w, and SiO₂: 47.5 – 50 % w/w, and ZrO₂: 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 Carcinogenic², mutagenic³, 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 Carcinogenic², mutagenic³, PBT and vPvB (articles 57a, 57b, 57d and 57e)



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Publication	Press release ECHA/PR/08/38
Date of inclusion	28 th October 2008
Decision number	ED/67/2008
Number of Substances:	15
Substance Name	Cobalt dichloride (updated 20 th June 2011)
EC Number	231-589-4
CAS Number	7646-79-9
Reason for inclusion	Carcinogenic (article 57a)
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)
<u>Sunset date</u>	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)
<u>Sunset date</u>	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)
<u>Sunset date</u>	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)
<u>Sunset date</u>	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)
<u>Sunset date</u>	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)



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

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.



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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).]