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Hazardous and Environmentally Sensitive Substances
Statement of Compliance

1 RoHS Directives 2002/95/EC, 2003/11/EC and 2011/65/EU

Tempel Steel Company warrants that **all steels** used for motor, transformer, and generator laminations as well as cores, and other electrical devices as manufactured and supplied by Tempel Steel Company, **do not contain hazardous substances** as described by Directive 2002/95/EC of the European Parliament and of the council of January 27, 2003 on the restrictions of the use of the certain hazardous substances in electrical or electronic equipment (RoHS), Directive 2003/11/EC of the European Parliament and of the council of February 6th, 2003, amending Council Directive 76/769/EEC, and Directive 2011/65/EU (RoHS-2), effective January 1, 2013, relating to restrictions on the marketing and use of certain dangerous substances and preparations. Tempel Steel Company further warrants that all steels used for laminations and cores, and other electrical devices as manufactured and supplied by Tempel Steel Company are compliant with the approved amendments to the RoHS directive (2015/863), also known as RoHS-3, that entered effect on December 31st, 2016. Under this directive four new phthalates were added to the list of restricted substances. Ten hazardous substances, shown below, are now restricted.

Table 1. List of RoHS / RoHS-2 / RoHS-3 Restricted Substances

Substance	Limit Value
Lead	0.1 wt.% / 1000 ppm
Mercury	0.1 wt.% / 1000 ppm
Cadmium	0.01 wt.% / 100 ppm
Hexavalent Chromium	0.1 wt.% / 1000 ppm
Polybrominated biphenyls (PBB)	0.1 wt.% / 1000 ppm
Polybrominated Diphenyl ethers (PBDE)	0.1 wt.% / 1000 ppm
Bis (2-ethylhexyl) phthalate (DEHP)	0.1 wt.% / 1000 ppm
Butyl benzyl phthalate (BBP)	0.1 wt.% / 1000 ppm
Dibutyl phthalate (DBP)	0.1 wt.% / 1000 ppm
Diisobutyl Phthalate (DIBP)	0.1 wt.% / 1000 ppm

2 REACH Candidate List—Substances of Very High Concern

In connection with Article 33 of the European REACH Regulation #1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals, which went into force June 1, 2007, with subsequent revisions, Tempel Steel Company warrants that all steels used for laminations and cores, and other electrical devices as manufactured and supplied by Tempel Steel Company, **do not contain** hazardous or environmentally sensitive Substances of Very High Concern (SVHC) as defined in Appendix I, based on a concentration not more than 0.1% or 0.01% weight by weight (w/w).

3 REACH Annex XIV

Annex XIV to REACH contains a list of substances subject to authorization under the REACH regulation. The substances on this list, a subset from the list of SVHC shown in Appendix II, can only be used if authorization has been granted for specific, defined uses, or the particular use is exempted from authorization. This list has been reviewed and Tempel Steel Company warrants that all steels used for laminations and cores, and other electrical devices as manufactured, do not contain or use these substances.

4 REACH Annex XVII

Annex XVII to REACH includes all the restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC. This list, which includes the restricted substances, mixtures, and articles that are considered hazardous to be used or marketed on the European market, see Appendix III, has been reviewed and Tempel Steel Company warrants that all steels used for laminations and cores, and other electrical devices as manufactured, do not contain or use them in the restricted manner noted.

Please contact me directly at telephone 773-250-8039 or by email at ehilinski@tempel.com if you have any questions or need additional information.



Erik J. Hilinski, Ph.D.
Senior Director, Engineering and Technology

June 22nd, 2022

Appendix I. Substances of Very High Concern

SVHC candidate list promulgated by ECHA on June 10, 2022. (224 SVHC):

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	213-103-2	924-42-5	10/06/2022	Carcinogenic (Article 57a) Mutagenic (Article 57b)	D(2022)4187-DC

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	17/01/2022	Toxic for reproduction (Article 57 c)	D(2021)10043-DC
tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17/01/2022	Toxic for reproduction (Article 57 c)	D(2021)10043-DC
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	17/01/2022	Endocrine disrupting properties (Article 57 f - human health)	D(2021)10043-DC
S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8	17/01/2022	PBT (Article 57 d)	D(2021)10043-DC

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Phenol, alkylation products (mainly in par position) with C12-rich branched alkyl chains from oligomerization, covering any individual isomers and/or combinations thereof (PDDP)	-	-	8/7/2021	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f)	D(2021)4569-DC
Orthoboric acid, sodium salt	-	-	8/7/2021	Toxic for reproduction (Article 57c)	D(2021)4569-DC
Medium-chain chlorinated paraffins (MCCP)	-	-	8/7/2021	PBT (Article 57d) vPvB (Article 57e)	D(2021)4569-DC
Glutaral	203-856-5	111-30-8	8/7/2021	Respiratory sensitizing properties (Article 57f)	D(2021)4569-DC
4,4'-(methylpropylidene)bisphenol	201-025-1	77-40-7	8/7/2021	Endocrine disrupting properties (Article 57f)	D(2021)4569-DC
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	8/7/2021	Toxic for reproduction (Article 57c)	D(2021)4569-DC
2,2-bis(bromomethyl)propane-1,3 diol (BMP); 2,2 dimethylpropan-1-ol, tribromo derivative/3-bromo 2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	-	8/7/2021	Carcinogenic (Article 57a)	D(2021)4569-DC
1,4-dioxane	204-661-8	123-91-1	8/7/2021	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	D(2021)4569-DC

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	19/01/2021	Toxic for reproduction (Article 57c)	D(2020)9139-DC
Diocetyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.	-	-	19/01/2021	Toxic for reproduction (Article 57c)	D(2020)9139-DC
Stannane, dioctyl-, bis(coco acyloxy) derivs.	293-901-5	91648-39-4	19/01/2021	Toxic for reproduction (Article 57c)	D(2020)9139-DC
Diocetyl tin dilaurate	222-883-3	3648-18-8	19/01/2021	Toxic for reproduction (Article 57c)	D(2020)9139-DC
Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	19/01/2021	Toxic for reproduction (Article 57c)	D(2020)9139-DC

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	25/06/2020	Toxic for reproduction (Article 57c)	D(2020)4578-DC

Appendix I. Substances of Very High Concern

Butyl 4-hydroxybenzoate	202-318-7	94-26-8	25/06/2020	Endocrine disrupting properties (Article 57(f) - human health)	D(2020)4578-DC
2-methylimidazole	211-765-7	693-98-1	25/06/2020	Toxic for reproduction (Article 57 (c))	D(2020)4578-DC
1-vinylimidazole	214-012-0	1072-63-5	25/06/2020	Toxic for reproduction (Article 57c)	D(2020)4578-DC

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Diisohexyl phthalate	276-090-2	71850-09-4	16/01/2020	Toxic for reproduction (Article 57 (c))	ECHA/01/2020
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	16/01/2020	Toxic for reproduction (Article 57 (c))	ECHA/01/2020
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	16/01/2020	Toxic for reproduction (Article 57 (c))	ECHA/01/2020
Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	16/01/2020	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)	ECHA/01/2020

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	-	16/07/2019	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	ED/71/2019
2-methoxyethyl acetate	203-772-9	110-49-6	16/07/2019	Toxic for reproduction (Article 57c)	ED/71/2019
4-tert-butylphenol	202-679-0	98-54-4	16/07/2019	Endocrine disrupting properties (Article 57(f) - environment)	ED/71/2019 EU/2019/1194
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	16/07/2019	Endocrine disrupting properties (Article 57(f) - environment)	ED/71/2019

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	15/01/2019	Endocrine disrupting properties (Article 57(f) - environment)	ED/88/2018
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	15/01/2019	Toxic for reproduction (Article 57c)	ED/88/2018
Benzo[k]fluoranthene	205-916-6	207-08-9	15/01/2019	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	ED/88/2018
Fluoranthene	205-912-4	206-44-0; 93951-69-0	15/01/2019	PBT (Article 57d) vPvB (Article 57e)	ED/88/2018
Phenanthrene	201-581-5	85-01-8	15/01/2019	vPvB (Article 57e)	ED/88/2018
Pyrene	204-927-3	129-00-0; 1718-52-1	15/01/2019	PBT (Article 57d) vPvB (Article 57e)	ED/88/2018

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	209-008-0	552-30-7	27/06/2018	Respiratory sensitising properties (Article 57(f) - human health)	ED/61/2018 EU/2018/594
Benzo[ghi]perylene	205-883-8	191-24-2	27/06/2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Decamethylcyclopentasiloxane D5	208-764-9	541-02-6	27/06/2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	27/06/2018	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article	EU/2018/636 ED/61/2018

Appendix I. Substances of Very High Concern

				57(f) - human health)	
Disodium octaborate	234-541-0	12008-41-2	27/06/2018	Toxic for reproduction (Article 57c)	ED 61/2018
Dodecamethylcyclotetrasiloxane D6	208-762-8	540-97-6	27/06/2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Ethylenediamine EDA	203-468-6	107-15-3	27/06/2018	Respiratory sensitising properties (Article 57(f) - human health)	ED 61/2018
Lead	231-100-4	7439-92-1	27/06/2018	Toxic for reproduction (Article 57c)	ED 61/2018
Octamethylcyclotetrasiloxane D4	209-136-7	556-67-2	27/06/2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Terphenyl, hydrogenated	262-967-7	61788-32-7	27/06/2018	vPvB (Article 57e)	ED 61/2018

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Chrysene	205-923-4	218-01-9	15/01/2018	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	ED 01/2018
Benz[a]anthracene	200-280-6	56-55-3	15/01/2018	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	ED 01/2018
Cadmium nitrate	233-710-6	10325-94-7	15/01/2018	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	ED 01/2018
Cadmium hydroxide	244-168-5	21041-95-2	15/01/2018	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	ED 01/2018
Cadmium carbonate	208-168-9	513-78-0	15/01/2018	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	ED 01/2018
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]	-	-	15/01/2018	vPvB (Article 57e)	ED 01/2018
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	-	15/01/2018	Endocrine disrupting properties (Article 57(f) – environment)	ED 01/2018

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	201-245-8	80-05-7	07/07/2017	vPvB (Article 57 e)	ED/30/2017

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
4,4'-isopropylidenediphenol (bisphenol A; BPA)	201-245-8	80-05-7	12/01/2017	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	ED/01/2017 ED/30/2017 ED01/2018
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 - 221-470-5	335-76-2 3830-45-3 3108-42-7	12/01/2017	Toxic for reproduction (Article 57c) PBT (Article 57d)	ED/01/2017
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12/01/2017	Equivalent level of concern having probable serious effects to environment (Article 57f)	ED/01/2017
4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently]	-	-	12/01/2017	Equivalent level of concern having probable serious effects to environment (Article 57f)	ED/01/2017

Appendix I. Substances of Very High Concern

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]					
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Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Benzo[def]chrysene	200-028-5	50-32-8	20/06/2016	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)	ED/21/2016

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
1,3-propanesultone	214-317-9	1120-71-4	17/12/2015	Carcinogenic (Article 57a)	ED/79/2015
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17/12/2015	vPvB (Article 57 e)	ED/79/2015
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17/12/2015	vPvB (Article 57 e)	ED/79/2015
Nitrobenzene	202-716-0	98-95-3	17/12/2015	Toxic for reproduction (Article 57c)	ED/79/2015
Perfluorononan-1-oic-acid and its sodium and ammonium salts Ammonium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 4149-60-4 Perfluorononan-1-oic-acid EC no.: 206-801-3 CAS no.: 375-95-1 Sodium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 21049-39-8	-	-	17/12/2015	Toxic for reproduction (Article 57c) PBT (Article 57 d)	ED/79/2015

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 68648-93-1	2015/06/15	Toxic for reproduction (Article 57 c)	ED/39/2015
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]		-	2015/06/15	vPvB (Article 57 e)	ED/39/2015
Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2014/12/17; 2008/10/28	Equivalent level of concern having probable serious effects to the environment (Article 57 f); Toxic for reproduction (Article 57 c)	ED/108/2014 ED/67/2008
Cadmium fluoride	232-222-0	7790-79-6	2014/12/17	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/108/2014
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	2014/12/17	Toxic for reproduction (Article 57 c)	ED/108/2014
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	2014/12/17	Toxic for reproduction (Article 57 c)	ED/108/2014
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014/12/17	PBT (Article 57 d); vPvB (Article 57 e)	ED/108/2014

Appendix I. Substances of Very High Concern

Cadmium sulphate	233-331-6	10124-36-4 31119-53-6	2014/12/17	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/108/2014
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	2014/12/17	PBT (Article 57 d); vPvB (Article 57 e)	ED/108/2014

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	2014/06/16	Toxic for reproduction (Article 57 c)	ED/49/2014
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	2014/06/16	Toxic for reproduction (Article 57 c)	ED/49/2014
Sodium peroxometaborate	231-556-4	7632-04-4	2014/06/16	Toxic for reproduction (Article 57 c)	ED/49/2014
Cadmium chloride	233-296-7	10108-64-2	2014/06/16	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/49/2014

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Cadmium sulphide	215-147-8	1306-23-6	2013/12/16	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/121/2013
Disodium 4-amino-3-[[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	2013/12/16	Carcinogenic (Article 57a);	ED/121/2013
Dihexyl phthalate	201-559-5	84-75-3	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013
Trixylyl phosphate	246-677-8	25155-23-1	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013
Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	2013/12/16	Carcinogenic (Article 57a);	ED/121/2013
Lead di(acetate)	206-104-4	301-04-2	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Cadmium	231-152-8	7440-43-9	2013/06/20	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/69/2013
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	2013/06/20	Toxic for reproduction (Article 57 c); PBT (Article 57 d)	ED/69/2013
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	2013/06/20	Toxic for reproduction (Article 57 c); PBT (Article 57 d)	ED/69/2013
Dipentyl phthalate (DPP)	205-017-9	131-18-0	2013/06/20	Toxic for reproduction (Article 57 c);	ED/69/2013
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]			2013/06/20	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	ED/69/2013
Cadmium oxide	215-146-2	1306-19-0	2013/06/20	Carcinogenic (Article 57a);	ED/69/2013

Appendix I. Substances of Very High Concern

				Equivalent level of concern having probable serious effects to human health (Article 57 f)	
Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[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]</i>	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/169/2012
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[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]</i>	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/169/2012
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Henicosfluoroundecanoic acid	218-165-4	2058-94-8	2012/12/19	vPvB (Article 57 e)	ED/169/2012
4-Aminoazobenzene	200-453-6	60-09-3	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Silicic acid, lead salt	234-363-3	11120-22-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead titanium zirconium oxide	235-727-4	12626-81-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead monoxide (lead oxide)	215-267-0	1317-36-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
o-Toluidine	202-429-0	95-53-4	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead dinitrate	233-245-9	10099-74-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped <i>[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]</i>	272-271-5	68784-75-8	2012/12/19	Toxic for reproduction (Article 57 c)	<u>ED/169/2012</u>
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	2012/12/19	Toxic for reproduction (Article 57 c)	<u>ED/169/2012</u>
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	2012/12/19	Carcinogenic (Article 57a)	<u>ED/169/2012</u>
Diethyl sulphate	200-589-6	64-67-5	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)	<u>ED/169/2012</u>
Dimethyl sulphate	201-058-1	77-78-1	2012/12/19	Carcinogenic (Article 57a)	<u>ED/169/2012</u>
N,N-dimethylformamide	200-679-5	68-12-2	2012/12/19	Toxic for reproduction (Article 57 c)	<u>ED/169/2012</u>
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	2012/12/19	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	<u>ED/169/2012</u>
4-Nonylphenol, branched and linear <i>[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</i>	-	-	2012/12/19	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	<u>ED/169/2012</u>

Appendix I. Substances of Very High Concern

<i>combination thereof</i>					
Furan	203-727-3	110-00-9	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Lead oxide sulfate	234-853-7	12036-76-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead titanium trioxide	235-038-9	12060-00-3	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	2012/12/19	PBT (Article 57 d); vPvB (Article 57 e)	ED/169/2012
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
1,2-Diethoxyethane	211-076-1	629-14-1	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
N-methylacetamide	201-182-6	79-16-3	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Tetralead trioxide sulphate	235-380-9	12202-17-4	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Acetic acid, lead salt, basic	257-175-3	51404-69-4	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Tetraethyllead	201-075-4	78-00-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
N-pentyl-isopentylphthalate	-	776297-69-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	2012/12/19	vPvB (Article 57 e)	ED/169/2012
Tricosafuorododecanoic acid	206-203-2	307-55-1	2012/12/19	vPvB (Article 57 e)	ED/169/2012
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Dioxobis(stearato)trilead	235-702-8	12578-12-0	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	2012/12/19	vPvB (Article 57 e)	ED/169/2012
Methoxyacetic acid	210-894-6	625-45-6	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
Trilead dioxide phosphonate	235-252-2	12141-20-7	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
o-aminoazotoluene	202-591-2	97-56-3	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Diisopentylphthalate	210-088-4	605-50-5	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Biphenyl-4-ylamine	202-177-1	92-67-1	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Orange lead (lead tetroxide)	215-235-6	1314-41-6	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
4,4'-oxydianiline and its salts	202-977-0	101-80-4	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/169/2012
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead cyanamidate	244-073-9	20837-86-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [<i>with $\geq 0.1\%$ of Michler's</i>	229-851-8	6786-83-0	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012

Appendix I. Substances of Very High Concern

<i>ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>					
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	2012/06/18	Mutagenic (Article 57b)	ED/87/2012
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
Diboron trioxide	215-125-8	1303-86-2	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
Formamide	200-842-0	75-12-7	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [<i>with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	209-218-2	561-41-1	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [<i>with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	208-953-6	548-62-9	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [<i>with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	219-943-6	2580-56-5	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	2012/06/18	Mutagenic (Article 57b)	ED/87/2012
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Phenolphthalein	201-004-7	77-09-8	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
N,N-dimethylacetamide	204-826-4	127-19-5	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	2011/12/19	Equivalent level of concern having probable serious effects to the environment (article 57 f)	ED/77/2011
Lead diazide, Lead azide	236-542-1	13424-46-9	2011/12/19	Toxic for reproduction (article 57 c),	ED/77/2011
Lead dipicrate	229-335-2	6477-64-1	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
1,2-dichloroethane	203-458-1	107-06-2	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Calcium arsenate	231-904-5	7778-44-1	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Dichromium tris(chromate)	246-356-2	24613-89-6	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011 /

Appendix I. Substances of Very High Concern

<i>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>					ED/95/2012
Arsenic acid	231-901-9	7778-39-4	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Lead styphnate	239-290-0	15245-44-0	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
Trilead diarsenate	222-979-5	3687-31-8	2011/12/19	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/77/2011
<i>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 (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>	-	-	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011 / ED/95/2012
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/31/2011 / ED/67/2008
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
Strontium chromate	232-142-6	7789-06-2	2011/06/20	Carcinogenic (article 57a)	ED/31/2011
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
1-Methyl-2-pyrrolidone	212-828-1	872-50-4	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
1,2,3-Trichloropropane	202-486-1	96-18-4	2011/06/20	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/31/2011
2-Ethoxyethyl acetate	203-839-2	111-15-9	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
Hydrazine	206-114-9	302-01-2, 7803-57-8	2011/06/20	Carcinogenic (article 57a)	ED/31/2011

Substance Name	EC Number	CAS Number	Date of	Reason for inclusion	Decision
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Appendix I. Substances of Very High Concern

			Inclusion		Number
Cobalt(II) diacetate	200-755-8	71-48-7	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
2-Ethoxyethanol	203-804-1	110-80-5	2010/12/15	Toxic for reproduction (article 57c)	ED/95/2010
Cobalt(II) sulphate	233-334-2	10124-43-3	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	2010/12/15	Carcinogenic (article 57a)	ED/95/2010
2-Methoxyethanol	203-713-7	109-86-4	2010/12/15	Toxic for reproduction (article 57c)	ED/95/2010
Chromium trioxide	215-607-8	1333-82-0	2010/12/15	Carcinogenic and mutagenic (articles 57 a and 57 b)	ED/95/2010
Cobalt(II) carbonate	208-169-4	513-79-1	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
Cobalt(II) dinitrate	233-402-1	10141-05-6	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Trichloroethylene	201-167-4	79-01-6	2010/06/18	Carcinogenic (article 57 a)	ED/30/2010
Potassium dichromate	231-906-6	7778-50-9	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	2010/06/18	Toxic for reproduction (article 57 c)	ED/30/2010
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	2010/06/18	Toxic for reproduction (article 57 c)	ED/30/2010
Ammonium dichromate	232-143-1	7789-09-5	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Sodium chromate	231-889-5	7775-11-3	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	2010/06/18	Toxic for reproduction (article 57 c)	ED/30/2010
Potassium chromate	232-140-5	7789-00-6	2010/06/18	Carcinogenic and mutagenic (articles 57 a and 57 b).	ED/30/2010

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Acrylamide	201-173-7	79-06-1	2010/03/30	Carcinogenic and mutagenic (articles 57 a and 57 b)	ED/68/2009
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c))	ED/68/2009
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/68/2009
2,4-Dinitrotoluene	204-450-0	121-14-2	2010/01/13	Carcinogenic (article 57a)	ED/68/2009
Anthracene oil	292-602-7	90640-80-5	2010/01/13	Carcinogenic ¹ , PBT and vPvB (articles 57a, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene-low	292-604-8	90640-82-7	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Diisobutyl phthalate	201-553-2	84-69-5	2010/01/13	Toxic for reproduction (article 57c)	ED/68/2009

Appendix I. Substances of Very High Concern

Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	2010/01/13	Toxic for reproduction (article 57c)	ED/68/2009
Lead chromate	231-846-0	7758-97-6	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/68/2009
Anthracene oil, anthracene paste	292-603-2	90640-81-6	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Pitch, coal tar, high temp.	266-028-2	65996-93-2	2010/01/13	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009

Substance Name	EC Number	CAS Number	Date of Inclusion	Reason for inclusion	Decision Number
Lead hydrogen arsenate	232-064-2	7784-40-9	2008/10/28	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/67/2008
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	2008/10/28	Toxic for reproduction (article 57c)	ED/67/2008
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2008/10/28	Toxic for reproduction (article 57c)	ED/67/2008
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	2008/10/28	PBT (article 57d)	ED/67/2008
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	2008/10/28	vPvB (article 57e)	ED/67/2008
Diarsenic trioxide	215-481-4	1327-53-3	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Triethyl arsenate	427-700-2	15606-95-8	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Diarsenic pentaoxide	215-116-9	1303-28-2	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	2008/10/28	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)	ED/67/2008
Dibutyl phthalate (DBP)	201-557-4	84-74-2	2008/10/28	Toxic for reproduction (article 57c)	ED/67/2008
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	2008/10/28	PBT and vPvB (articles 57 d and 57 e)	ED/67/2008
Anthracene	204-371-1	120-12-7	2008/10/28	PBT (article 57d)	ED/67/2008
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	2008/10/28	PBT (article 57d)	ED/67/2008

Appendix II. Annex XIV List of Authorized Substances

Substance Name	EC Number	CAS Number	Entry No.	Latest Application Date	Sunset Date
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	01	21/02/2013	21/08/2014
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	02	21/02/2013	21/08/2014
Hexabromocyclododecane (HBCDD)	-	-	03	21/02/2014	21/08/2015
Hexabromocyclododecane	247-148-4	25637-99-4	03	21/02/2014	21/08/2015
1,2,5,6,9,10-hexabromocyclododecane	221-695-9	3194-55-6	03	21/02/2014	21/08/2015
alpha-hexabromocyclododecane	-	134237-50-6	03	21/02/2014	21/08/2015
beta-hexabromocyclododecane	-	134237-51-7	03	21/02/2014	21/08/2015
gamma-hexabromocyclododecane	-	134237-52-8	03	21/02/2014	21/08/2015
Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	04	21/08/2013	21/02/2015
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	05	21/08/2013	21/02/2015
Dibutyl phthalate (DBP)	201-557-4	84-74-2	06	21/08/2013	21/02/2015
Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	07	21/08/2013	21/02/2015
Diarsenic trioxide	215-481-4	1327-53-3	08	21/11/2013	21/05/2015
Diarsenic pentaoxide	215-116-9	1303-28-2	09	21/11/2013	21/05/2015
Lead chromate	231-846-0	7758-97-6	10	21/11/2013	21/05/2015
Lead sulfochromate yellow	215-693-7	1344-37-2	11	21/11/2013	21/05/2015
Lead chromate molybdate sulfate red	235-759-9	12656-85-8	12	21/11/2013	21/05/2015
Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	13	21/02/2014	21/08/2015
2,4-dinitrotoluene (2,4-DNT)	204-450-0	121-14-2	14	21/02/2014	21/08/2015
Trichloroethylene	201-167-4	79-01-6	15	21/10/2014	21/04/2016
Chromium trioxide	215-607-8	1333-82-0	16	21/03/2016	21/09/2017
Acids generated from chromium trioxide and their oligomers	-	-	17	21/03/2016	21/09/2017
Oligomers of chromic acid and dichromic acid	-	-	17	21/03/2016	21/09/2017
Chromic acid	231-801-5	7738-94-5	17	21/03/2016	21/09/2017
Dichromic acid	236-881-5	13530-68-2	17	21/03/2016	21/09/2017
Sodium dichromate	234-190-3	10588-01-9, 7789-12-0	18	21/03/2016	21/09/2017
Potassium dichromate	231-906-6	7778-50-9	19	21/03/2016	21/09/2017
Ammonium dichromate	232-143-1	7789-09-5	20	21/03/2016	21/09/2017
Potassium chromate	232-140-5	7789-00-6	21	21/03/2016	21/09/2017
Sodium chromate	231-889-5	7775-11-3	22	21/03/2016	21/09/2017
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	23	22/02/2016	22/08/2017
Arsenic acid	231-901-9	7778-39-4	24	22/02/2016	22/08/2017
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	25	22/02/2016	22/08/2017
1,2-dichloroethane (EDC)	203-458-1	107-06-2	26	22/05/2016	22/11/2017
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	27	22/05/2016	22/11/2017
Dichromium tris(chromate)	246-356-2	24613-89-6	28	22/07/2017	22/01/2019
Strontium chromate	232-142-6	7789-06-2	29	22/07/2017	22/01/2019
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	30	22/07/2017	22/01/2019
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	31	22/07/2017	22/01/2019
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	32	04/01/2019	04/07/2020
diisopentylphthalate	210-088-4	605-50-5	33	04/01/2019	04/07/2020

Appendix II. Annex XIV List of Authorized Substances

1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	34	04/01/2019	04/07/2020
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	35	04/01/2019	04/07/2020
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	36	04/01/2019	04/07/2020
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	37	04/01/2019	04/07/2020
Dipentyl phthalate	205-017-9	131-18-0	38	04/01/2019	04/07/2020
n-pentyl-isopentylphthalate	933-378-9	776297-69-9	39	04/01/2019	04/07/2020
[No public or meaningful name is available]	-	-	40	04/04/2019	04/10/2020
Pitch, coal tar, high-temp.	266-028-2	65996-93-2	41	04/04/2019	04/10/2020
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	42	04/07/2019	04/01/2021
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	-	9036-19-5	42	04/07/2019	04/01/2021
Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenyl ether	-	9002-93-1	42	04/07/2019	04/01/2021
20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol	219-682-8	2497-59-8	42	04/07/2019	04/01/2021
2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethanol	621-345-9	2315-67-5	42	04/07/2019	04/01/2021
2-[2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethoxy]ethanol	-	2315-61-9	42	04/07/2019	04/01/2021
4-Nonylphenol, branched and linear, ethoxylated	-	-	43	04/07/2019	04/01/2021
2-[2-[2-[4-(nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol	230-770-5	7311-27-5	43	04/07/2019	04/01/2021
Nonylphenol, branched, ethoxylated	500-209-1	68412-54-4	43	04/07/2019	04/01/2021
4-Nonylphenol, ethoxylated	500-045-0	26027-38-3	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated	500-024-6	9016-45-9	43	04/07/2019	04/01/2021
Nonylphenol, branched, ethoxylated (CAS# 68412-54-4)	-	-	43	04/07/2019	04/01/2021
26-(4-Nonylphenoxy)-3,6,9,12,15,18,21,24- octaoxahexacosan -1-ol	604-395-6	14409-72-4	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated (15-EO) (9016-45-9)	931-756-8	-	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated (10-EO) (9016-45-9)	931-755-2	-	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated (8-EO) (9016-45-9)	931-754-7	-	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated (6,5-EO) (9016-45-9)	931-753-1	-	43	04/07/2019	04/01/2021
2-[2-(4-nonylphenoxy)ethoxy]ethanol	243-816-4	20427-84-3	43	04/07/2019	04/01/2021
20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	248-743-1	27942-27-4	43	04/07/2019	04/01/2021
Ethanol, 2-(4-nonylphenoxy)-	-	104-35-8	43	04/07/2019	04/01/2021
4-t-Nonylphenol-diethoxylate	-	156609-10-8	43	04/07/2019	04/01/2021
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-	-	20636-48-0	43	04/07/2019	04/01/2021
4-Nonylphenol, branched, ethoxylated	500-315-8	127087-87-0	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated (EO = 10)	939-993-9	-	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated (EO = 4)	939-975-0	-	43	04/07/2019	04/01/2021
Nonylphenol, ethoxylated (polymer)	938-618-6	-	43	04/07/2019	04/01/2021
2-[2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy]ethanol	687-833-9	1119449-38-5	43	04/07/2019	04/01/2021
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol	687-832-3	1119449-37-4	43	04/07/2019	04/01/2021
Nonylphenolpolyglycolether	932-998-7	-	43	04/07/2019	04/01/2021
4-Nonylphenol, branched, ethoxylated (CAS: 127087-87-0)	932-098-4	127087-87-0	43	04/07/2019	04/01/2021
Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (CAS 9016-45-9)	931-562-3	9016-45-9	43	04/07/2019	04/01/2021
Isononylphenol, ethoxylated	609-346-2	37205-87-1	43	04/07/2019	04/01/2021
p-Nonylphenol hexaethoxylate	-	34166-38-6	43	04/07/2019	04/01/2021
23-(nonylphenoxy)-3,6,9,12,15,18,21-heptaoxatricosan-1-ol	248-293-6	27177-05-5	43	04/07/2019	04/01/2021
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol	247-816-5	26571-11-9	43	04/07/2019	04/01/2021

Appendix II. Annex XIV List of Authorized Substances

14-(nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol	247-555-7	26264-02-8	43	04/07/2019	04/01/2021
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	44	27/08/2021	27/02/2023
Dihexyl phthalate	201-559-5	84-75-3	45	27/08/2021	27/02/2023
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	-	46	27/08/2021	27/02/2023
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	272-013-1	68648-93-1	46	27/08/2021	27/02/2023
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	271-094-0	68515-51-5	46	27/08/2021	27/02/2023
Trixylyl phosphate	246-677-8	25155-23-1	47	27/11/2021	27/05/2023
Sodium perborate, perboric acid, sodium salt	-	-	48	27/11/2021	27/05/2023
Perboric acid, sodium salt	234-390-0	11138-47-9	48	27/11/2021	27/05/2023
Sodium perborate	239-172-9	15120-21-5	48	27/11/2021	27/05/2023
Perboric acid (H3BO2(O2)), monosodium salt, trihydrate	603-902-8	13517-20-9	48	27/11/2021	27/05/2023
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium, hydrate (1:2:6)	-	125022-34-6	48	27/11/2021	27/05/2023
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2)	-	90568-23-3	48	27/11/2021	27/05/2023
Sodium peroxometaborate	231-556-4	7632-04-4	49	27/11/2021	27/05/2023
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]	-	-	50	27/02/2022	27/08/2023
Reaction mass of 5-[(2R)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1R,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1R,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2S)-butan-2-yl]-2-[(1S,6R)-4,6-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane	-	-	50	27/02/2022	27/08/2023
1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-	-	117933-89-8	50	27/02/2022	27/08/2023
Reaction mass of 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane and 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	413-720-9	117933-89-8	50	27/02/2022	27/08/2023
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	51	27/05/2022	27/11/2023
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	52	27/05/2022	27/11/2023
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	53	27/05/2022	27/11/2023
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	54	27/05/2022	27/11/2023

Appendix III. Annex XVII List of Restricted Substances

Substance Name	EC no.	CAS no.	Restriction Overview	Restriction Conditions
Polychlorinated terphenyls (PCTs)	-	-	Banned as substances. Less than 0.005% in mixtures or equipment.	https://echa.europa.eu/documents/10162/3fd87368-345a-4b56-b545-53b2b8d4aa8c
Chloroethene, Chloroethylene (Vinyl chloride)	200-831-0	75-01-4	Banned as propellant in aerosols for any use.	https://echa.europa.eu/documents/10162/a7ed88f5-3b13-46ef-8fb7-dbb08087cfeb
Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	-	-	Banned in ornamental articles intended to produce light or colour effects, tricks and jokes, and games. Extra labelling requirement for lamp oils and grill lighters.	https://echa.europa.eu/documents/10162/fcde7e63-fd67-4bce-91f6-9e810dfb0f76
Tris (2,3 dibromopropyl) phosphate	-	126-72-7	Banned in textile articles intended to come into contact with the skin	https://echa.europa.eu/documents/10162/c05269fe-1ecd-4186-9534-aaec4e15e0f1
Benzene	200-753-7	71-43-2	Less than 0.0005 % in toys or part of toy. Banned as substance. Less than 0.1% in mixture. Exclusion: motor fuel, industrial use	https://echa.europa.eu/documents/10162/59f436ca-8afa-4adf-b108-27d7bc8a7751
Asbestos fibres	-	-	Banned in mixtures and articles.	https://echa.europa.eu/documents/10162/f1e9fa54-53f9-4896-a4dd-4bc260b5c319
Tris(aziridinyl)phosphin oxide	208-892-5	545-55-1	Banned in textile articles intended to come into contact with the skin	https://echa.europa.eu/documents/10162/48077533-21cf-40dc-a8a8-d32408b8cda4
Polybromobiphenyls, Polybrominatedbiphenyls (PBB)	-	59536-65-1	Banned in textile articles intended to come into contact with the skin	https://echa.europa.eu/documents/10162/bdd717aa-7466-40ce-8a46-08c83ecc3aeb
(a) Soap bark powder (Quillaja saponaria) and its derivatives containing saponines (b) Powder of the roots of Helleborus viridis and Helleborus niger (c) Powder of the roots of Veratrum album and Veratrum nigrum (d) Benzidine and/or its derivatives (e) o-Nitrobenzaldehyde (f) Wood powder	273-620-4, 202-199-1, 209-025-3	68990-67-0, 92-87-5, 552-89-6	Banned in jokes and hoaxes, or mixtures or articles intended to be used as such,	https://echa.europa.eu/documents/10162/bc246292-b01b-4203-90b7-a4ba81a6780b
Ammonium polysulphide, Ammonium sulphide, Ammonium hydrogen sulphide	232-989-1, 235-223-4, 235-184-3	9080-17-5, 12135-76-1, 12124-99-1	Banned in jokes and hoaxes, or mixtures or articles intended to be used as such. Exemption: stink bombs containing less than 1.5 ml of liquid	https://echa.europa.eu/documents/10162/1c454ceb-4a7e-4d11-bde6-59bb4bfe7bb5
Volatile esters of bromoacetic acids: Butyl bromoacetate, Propyl bromoacetate, Ethyl bromoacetate, Methyl bromoacetate	242-729-9, 203-290-9, 202-499-2	18991-98-5, 35223-80-4, 105-36-2, 96-32-2	Banned in jokes and hoaxes, or mixtures or articles intended to be used as such. Exemption: stink bombs containing less than 1.5 ml of liquid	https://echa.europa.eu/documents/10162/b515d01c-ab18-44a6-9ada-72529f1573ed
Chloroethene, Chloroethylene (Vinyl chloride)	200-831-0	75-01-4	Banned as propellant in aerosols for any use.	https://echa.europa.eu/documents/10162/a7ed88f5-3b13-46ef-8fb7-dbb08087cfeb
2-naphthylamine and its salts	202-080-4, 210-313-6, 209-030-0	91-59-8, 612-52-2, 553-00-4	Banned as substances. Less than 0.1% in mixture.	https://echa.europa.eu/documents/10162/1435a321-63c2-4baf-b325-1fb4bf29d950
Benzidine and its salts	202-199-1	92-87-5	Banned as substances. Less than 0.1% in mixture.	https://echa.europa.eu/documents/10162/c3f76361-78fe-4e74-89f2-bdbbb34083d4

Appendix III. Annex XVII List of Restricted Substances

Substance Name	EC no.	CAS no.	Restriction Overview	Restriction Conditions
4-Nitrobiphenyl	202-204-7	92-93-3	Banned as substances. Less than 0.1% in mixture.	https://echa.europa.eu/documents/10162/4abe7020-a86a-409c-87ac-22ae2c89b500
4-Aminobiphenyl xenylamine and its salts	202-177-1	92-67-1	Banned as substances. Less than 0.1% in mixture.	https://echa.europa.eu/documents/10162/0e1cbf82-fe57-4c3b-97a4-0917ad8f212c
Lead carbonates	215-290-6, 209-943-4	1319-46-6, 598-63-0	Banned for use in paints	https://echa.europa.eu/documents/10162/22dd9386-7fac-4e8d-953a-ef3c71025ad4
Lead sulphates	231-198-9, 239-831-0	7446-14-2, 15739-80-7	Banned for use in paints	https://echa.europa.eu/documents/10162/ffd7653b-98cc-4bcc-9085-616559280314
Mercury compounds	-	-	Banned as substances or in mixture for preventing the fouling by micro-organisms, plants or animals, preservation of wood, impregnation of heavy-duty industrial textiles and treatment of industrial waters	Mercury compounds
Mercury	231-106-7	7439-97-6	Banned in thermometers and certain measuring devices.	https://echa.europa.eu/documents/10162/5a7222b0-9d3a-4a90-9e55-258149e92b1a
Arsenic compounds	-	-	Banned as substances or in mixture for preventing the fouling by micro-organisms, plants or animals, preservation of wood and treatment of industrial waters	https://echa.europa.eu/documents/10162/a798c758-371f-41e5-a38d-5f8dc9ba739d
Organostannic compounds	-	-	Banned as biocides in free association paint and for preventing the fouling by micro-organisms, plants or animals. Banned in use for the treatment of industrial waters. The concentration of Tributyltin (TBT) compounds, triphenyltin (TPT) compounds, Dibutyltin (DBT) compounds, and Dioctyltin (DOT) compounds in articles supplied to the public and their parts shall be less than 0.1 % by weight of tin. Typical articles include textile, gloves and childcare articles.	https://echa.europa.eu/documents/10162/7bd363a8-da41-460f-838d-3326b3fb7bd4
Di-μ-oxo-di-n-butylstanniohydroxyborane / Dibutyltin hydrogen borate C ₈ H ₁₉ BO ₃ Sn (DBB)	401-040-5	75113-37-0	Banned as substances. Less than 0.1% in mixture.	https://echa.europa.eu/documents/10162/ce4f0c81-1ba1-4b5d-8d6e-6e1e05a36902
Pentachlorophenol and its salts and esters	-	-	Banned as substances. Less than 0.1% in mixture.	https://echa.europa.eu/documents/10162/f92b0bfe-82ca-4a4d-b618-c674065c9d9e
Cadmium and its compounds	-	-	The concentration of cadmium (expressed as Cd metal) in mixtures and articles produced from plastic materials (such as PVC), brazing fillers, metal beads, metal parts of jewellery shall be less than 0.01%. The limit is 0.1% for recovered PVC. Shall not be used or placed on the market in paints with codes [3208] [3209] in a concentration (expressed as Cd metal) equal to or greater than 0,01 % by weight. Shall not be used for cadmium plating metallic articles or components of the articles used in certain sectors/applications.	https://echa.europa.eu/documents/10162/3bfef8a3-8c97-4d85-ae0b-ac6827de49a9
Monomethyl — tetrachlorodiphenyl methane Trade name: Ugilec 141	-	76253-60-6	Banned as a substance or in mixtures or in any articles	https://echa.europa.eu/documents/10162/1d81010a-17e1-4026-b01c-70f647c7356b

Appendix III. Annex XVII List of Restricted Substances

Substance Name	EC no.	CAS no.	Restriction Overview	Restriction Conditions
Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121, Ugilec 21	-	-	Banned as a substance or in mixtures or in any articles	https://echa.europa.eu/documents/10162/08960286-ad89-47b1-a538-7f4c8d7d9074
Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT	-	99688-47-8	Banned as a substance or in mixtures or in any articles	https://echa.europa.eu/documents/10162/47ff2539-e5fc-48e4-9136-1ded27dda4fc
Nickel and its compounds	-	-	Shall not be used: (a) in any post assemblies which are inserted into pierced ears and other pierced parts of the human body unless the rate of nickel release from such post assemblies is less than 0,2 µg/cm ² /week (migration limit); (b) in articles intended to come into direct and prolonged contact with the skin	https://echa.europa.eu/documents/10162/7851171d-53e9-455a-8bb8-7ca22e89ad87
Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2)	-	-	Shall not be placed on the market, or used, as substances, as constituents of other substances, or, in mixtures, for supply to the general public if the individual concentration exceeds concentration limits (0.1%)	https://echa.europa.eu/documents/10162/caa50aef-640d-43b6-8eb0-6c9c542afa70
Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2)	-	-	Shall not be placed on the market, or used, as substances, as constituents of other substances, or, in mixtures, for supply to the general public if the individual concentration exceeds concentration limits (0.1%).	https://echa.europa.eu/documents/10162/91135346-5343-4772-9e2e-185d0a403ed5
Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2)	-	-	Shall not be placed on the market, or used, as substances, as constituents of other substances, or, in mixtures, for supply to the general public if the individual concentration exceeds concentration limits (0.3%)	https://echa.europa.eu/documents/10162/fc55e515-6325-4872-8156-5b5451af20b4
Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline, Tar acids, coal, crude; crude phenols; Distillates (coal tar), upper; heavy anthracene oil, Creosote oil; wash oil; Distillates (coal tar), naphthalene oils; naphthalene oil	-	-	Banned as substance or in mixtures for wood treatment	https://echa.europa.eu/documents/10162/3bbeb1d6-82f7-42b0-9e4c-d8ea9db7ddd3
Chloroform	200-663-8	67-66-3	Shall not be placed on the market, or used, as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.	https://echa.europa.eu/documents/10162/3a704004-7613-4635-8f97-d5e06a3dd860
Deleted due to REACH updates				
1,1,2-Trichloroethane	201-166-9	79-00-5	Shall not be placed on the market, or used, as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.	https://echa.europa.eu/documents/10162/b6152d9d-052a-4f8c-849f-661fa4b39e99

Appendix III. Annex XVII List of Restricted Substances

Substance Name	EC no.	CAS no.	Restriction Overview	Restriction Conditions
1,1,2,2-Tetrachloroethane	201-197-8	79-34-5	Shall not be placed on the market, or used, as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.	https://echa.europa.eu/documents/10162/efce8a7e-d8cb-4ab3-a266-80e92c515780
1,1,1,2-Tetrachloroethane	-	630-20-6	Shall not be placed on the market, or used, as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.	https://echa.europa.eu/documents/10162/0eaea875-9f18-4164-98af-a46ee96b6493
Pentachloroethane	200-925-1	76-01-7	Shall not be placed on the market, or used, as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.	https://echa.europa.eu/documents/10162/29afaaf7-80f9-41a5-bf70-6bea78773e65
1,1-Dichloroethene	200-864-0	75-35-4	Shall not be placed on the market, or used, as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.	https://echa.europa.eu/documents/10162/47239303-dea1-4d12-8a2f-b95bc7c5f1b8
Deleted due to REACH updates				
Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not	-	-	Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes	https://echa.europa.eu/documents/10162/1334f4e4-caf0-4473-b5f9-f8a8d17c5c57
Hexachloroethane	200-666-4	67-72-1	Banned as substance or in mixture for use in the manufacturing or processing of non-ferrous metals	https://echa.europa.eu/documents/10162/81999653-d3c7-4f71-88a3-2c9373b12d52
Deleted due to REACH updates				
Azocolourants and Azodyes	-	-	Azodyes which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines listed in Appendix 8, in detectable concentrations, i.e. above 30 mg/kg (0,003 % by weight) in the articles or in the dyed parts thereof, shall not be used, in textile and leather articles which may come into direct and prolonged contact with the human skin or oral cavity.	https://echa.europa.eu/documents/10162/6f65910f-f80b-41c3-9c15-026731e4c03d

Appendix III. Annex XVII List of Restricted Substances

Substance Name	EC no.	CAS no.	Restriction Overview	Restriction Conditions
Diphenylether, octabromo derivative C12H2Br8O	-	-	Banned as a substance. Less than 0.1% in mixture and article	https://echa.europa.eu/documents/10162/ce525a61-dbc8-4847-965f-db4f6136d5b5
Nonylphenol ethoxylates (NPE) (C2H4O) _n C15H24O			Shall not be placed on the market after 3 February 2021 in textile articles which can reasonably be expected to be washed in water during their normal lifecycle, in concentrations equal to or greater than 0,01 % by weight of that textile article or of each part of the textile article.	https://echa.europa.eu/documents/10162/7dcd73a4-e80d-47c5-ba0a-a5f4361bf4b1
Nonylphenol C6H4(OH)C9H19 and Nonylphenol ethoxylates	246-672-0, 500-024-6, 500-045-0, 614-460-0, 500-315-8, 609-346-2, 500-209-1	25154-52-3, 9016-45-9, 26027-38-3, 68412-53-3, 127087-87-0, 37205-87-1, 68412-54-4	Less than 0.1% for domestic, industrial and institutional cleaning products, textiles and leather processing, emulsifier in agricultural teat dips, metal working, manufacturing of pulp and paper, cosmetic products, and co-formulants in pesticides and biocides.	https://echa.europa.eu/documents/10162/b91a8a69-f38e-4a35-ab7d-e475e5926988
Chromium VI compounds	-	-	Less than 2 mg/kg (0,0002%) soluble chromium VI of the total dryweight of the cement and cement-mixtures (some exemptions apply). Leather articles and leather parts coming into contact with the skin shall not be placed on the market where they contain chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of the leather.	https://echa.europa.eu/documents/10162/1f775bd4-b1b0-4847-937f-d6a37e2c0c98
Toluene	203-625-9	108-88-3	Less than 0.1% in adhesives or spray paints intended for supply to the general public.	https://echa.europa.eu/documents/10162/f28ce048-676d-4d17-b939-0c08e9a0db9f
Trichlorobenzene	204-428-0	120-82-1	Banned as a substance. Less than 0.1% in mixture. Exemption: intermediate use	https://echa.europa.eu/documents/10162/fa5ae031-f3bb-41c5-87d2-dde74ccc4d56
Polycyclic-aromatic hydrocarbons (PAHs): (a) Benzo[a]pyrene (BaP) (b) Benzo[e]pyrene (BeP) (c) Benzo[a]anthracene (BaA) (d) Chrysene (CHR) (e) Benzo[b]fluoranthene (BbFA) (f) Benzo[j]fluoranthene (BjFA) (g) Benzo[k]fluoranthene (BkFA) (h) Dibenzo[a,h]anthracene (DBaA)	-	50-32-8,192-97-2, 56-55-3, 218-01-9, 205-99-2, 205-82-3, 207-08-9, 53-70-3	Less 1 mg/kg (0,0001 % by weight) BaP, and less than 10 mg/kg (0,001 % by weight) of the sum of all listed PAHs in extender oil for type production. Less than 1 mg/kg (0,0001 %) by weight of any of the listed PAHs in articles supplied to the general public, if any of their rubber or plastic components come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity. Less than 0.5 mg/kg (0,00005 %) by weight of any of the listed PAHs in toys, including activity toys, and childcare articles if any of their rubber or plastic components that come into direct as well as prolonged or shortterm repetitive contact with the human skin or the oral cavity.	https://echa.europa.eu/documents/10162/176064a8-0896-4124-87e1-75cdf2008d59
Phthalates: Dibutyl phthalate (DBP), Benzyl butyl phthalate (BBP), Bis (2-ethylhexyl) phthalate (DEHP)	201-557-4, 201-622-7, 204-211-0	84-74-2,85-68-7,117-81-7	Less than 0,1 % by weight of the plasticised material in toys and childcare articles.	https://echa.europa.eu/documents/10162/0e5f0f56-f1c1-4c13-86d2-6ede98a1f85f
Phthalates: 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich, 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich, Di-"isononyl" phthalate (DINP), Di-"isodecyl" phthalate (DIDP), Di-n-octyl phthalate (DNOP)	271-090-9, 271-091-4, 249-079-5, 247-977-1, 204-214-7	68515-48-0, 68515-49-1, 28553-12-0, 26761-40-0, 117-84-0	Less than 0,1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.	https://echa.europa.eu/documents/10162/57096439-2ddd-4f14-b832-85181a09f595

Appendix III. Annex XVII List of Restricted Substances

Substance Name	EC no.	CAS no.	Restriction Overview	Restriction Conditions
This PFOS entry was deleted from REACH in 2010 since PFOS is now subject to EU POPs regulation.				
2-(2-methoxyethoxy)ethanol (DEGME)	203-906-6	111-77-3	Less than 0.1% by weight as a constituent of paints, paint strippers, cleaning agents, self-shining emulsions or floor sealants supplied to the general public	https://echa.europa.eu/documents/10162/c0b7baea-d2d6-4fa5-86b8-c322ab573d8f
2-(2-butoxyethoxy)ethanol (DEGBE)	203-961-6	112-34-5	Less than 3% by weight in spray paints or spray cleaners in aerosol dispensers supplied to the general public	https://echa.europa.eu/documents/10162/9e666f9e-efe4-4fc5-ac35-66c557bcc0dc
Methylenediphenyl diisocyanate (MDI)	219-799-4, 247-714-0, 202-966-0, 227-534-9	2536-05-2, 26447-40-5, 101-68-8, 5873-54-1	Less than 0.1% in mixture supplied to the general public. Exemption: hot melt adhesives	https://echa.europa.eu/documents/10162/46cb2ae0-ee6b-4319-8604-b5b1d4a41d53
Cyclohexane	203-806-2	110-82-7	Less than 0.1% in neoprene-based contact adhesives supplied to the general public in package sizes greater than 350 g	https://echa.europa.eu/documents/10162/ca2ec609-0177-402a-911f-6ac524275d6e
Ammonium nitrate (AN)	229-347-8	6484-52-2	Less than 28 % by weight of nitrogen in relation to ammonium nitrate for use as a solid fertiliser. Less than 16% in other mixture except certain uses.	https://echa.europa.eu/documents/10162/0dab7a72-084b-4460-a8ea-74b9f40b1e35
Dichloromethane	200-838-9	75-09-2	Less than 0.1% in paint strippers	https://echa.europa.eu/documents/10162/0ea58491-bb76-4a47-b1d2-36faa1e0f290
Acrylamide	201-173-7	79-06-1	Less than 0.1% by weight for grouting applications	https://echa.europa.eu/documents/10162/701f6c15-98ec-4611-ac63-35fcca2e4047
Dimethylfumarate (DMF)	210-849-0	624-49-7	Less than 0.1 mg/kg in articles and their parts	https://echa.europa.eu/documents/10162/f9d87b89-5870-483f-bd8a-a5cfe18095cd
Phenylmercury 2-ethylhexanoate, Phenylmercury acetate, Phenylmercury neodecanoate, Phenylmercury octanoate, Phenylmercury propionate	236-326-7, 200-532-5, 247-783-7, 203-094-3	13302-00-6, 62-38-4, 26545-49-3, 13864-38-5, 103-27-5	Less than 0.01% by weight of mercury in mixture, article or its part.	https://echa.europa.eu/documents/10162/492c2db0-7db6-4d76-8347-fca1b22c0c7d
Lead and its compounds	-	-	Less than 0.05 % by weight of lead in any individual part of jewellery articles. Less than 0.05 % by weight of lead in articles supplied to the general public if those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in the mouth by children.	https://echa.europa.eu/documents/10162/3f17bfa-d554-4825-b9d5-abe853c2fda2
1,4-Dichlorobenzene	203-400-5	106-46-7	Less than 0.1% in air freshener or deodoriser in toilets, homes, offices or other indoor public areas	https://echa.europa.eu/documents/10162/f4a325ee-70ff-4324-ab82-b9cf29c54018
Inorganic ammonium salts			Banned in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m ³) under specified test conditions	https://echa.europa.eu/documents/10162/ceea529c-8aed-471a-9010-b465ac833b38
Bisphenol A	201-245-8	80-05-7	Less than 0.02 % by weight in thermal paper after 2 January 2020	https://echa.europa.eu/documents/10162/370b5de7-9507-f1b4-edc6-80ef2e5cd781

Appendix III. Annex XVII List of Restricted Substances

Substance Name	EC no.	CAS no.	Restriction Overview	Restriction Conditions
Bis(pentabromophenyl)ether (decaBDE)	214-604-9	1163-19-5	Banned as a substance. Less than 0.1% in article or its part. Exemptions: spare parts of aircraft, vehicles or machines, electrical and electronic equipment	https://echa.europa.eu/documents/10162/ac3aefaa-3cf1-1af4-3315-764f1ce4c7ba
Perfluorooctanoic acid (PFOA) and its salts	206-397-9	335-67-1	Banned as a substance from 4 July 2020. Less than 25 ppb of PFOA including its salts or 1 000 ppb of one or a combination of PFOA-related substances in mixture and article. Certain applications are exempt.	https://echa.europa.eu/documents/10162/7a04b630-e00a-a9c5-bc85-0de793f6643c
Methanol	200-659-6	67-56-1	Less than 0.6% in windscreen washing or defrosting fluids supplied to general public	https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32018R0589
Octamethylcyclotetrasiloxane (D4) and Decamethylcyclopentasiloxane (D5)	209-136-7, 208-764-9	556-67-2, 541-02-6	Less than 0.1% by weight in wash-off cosmetics.	http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32018R0035&from=EN
1-methyl-2-pyrrolidone(NMP)	212-828-1	872-50-4	Shall not be placed on the market as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020	https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32018R0588
CMR substances in textiles and footwear (link)	/	/	Various restriction limits	https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2018.256.01.0001.01.ENG&toc=OJ.L:2018:256:TOC
(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silanetriol Any of its mono-, di- or tri-O-(alkyl) derivatives (TDFAs)	/	/	Banned as a substance in consumer use spray products in a concentration equal to or greater than 2 ppb by weight. Additional requirement for professional use spray products.	https://www.echa.europa.eu/documents/10162/57497ef0-ee60-a9e9-8bd1-9daba3b3c427