



June 20, 2022

**Subject: REACH
Candidate Substances of Very High Concern (SVHC),
Authorization List, and Substances restricted under REACH**

Dear Customer,

REACH stands for Registration, Evaluation, Authorisation and Restriction of Chemicals, from the European Union Regulation EC No 1907/2006.

Our company REACH statement can be downloaded at www.plenco.com/reach.pdf.

Candidate List of substances of very high concern for Authorisation

(published in accordance with Article 59(10) of the REACH Regulation)

The Candidate List of Substances of Very High Concern for authorization is available from the internet site link: <http://echa.europa.eu/candidate-list-table>. Only the Candidate List published on this website is deemed authentic.

Authorisation List

List of substances included in Annex XIV of REACH ("Authorisation List").

<https://echa.europa.eu/authorisation-list>

Substances restricted under REACH

Table Annex XVII to REACH and includes all the restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC.

<https://echa.europa.eu/substances-restricted-under-reach>

To the best of my knowledge, none of the substances on the above lists in the attached tables are expected be present in articles above a concentration of 0.1% (w/w) molded from Plastics Engineering Company molding compounds. To the best of my knowledge, articles molded from Plastics Engineering Company molding compounds are expected to be compliant with Substances restricted under REACH, Annex XVII, and conditions of restrictions.

Thank you.

Sincerely,

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PLASTICS ENGINEERING COMPANY
SHEBOYGAN, WISCONSIN 53082-0758 U.S.A

Candidate List of Substances of Very High Concern for authorization is available from the internet site link: <http://echa.europa.eu/candidate-list-table>

Number of substances on the Candidate List: **224 (last updated: June 2022)**

	Substance Name	EC Number	CAS Number	Date of inclusion
224	N-(hydroxymethyl)acrylamide	213-103-2	213-103-2	213-103-2
223	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17/01/2022
222	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
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	17/01/2022
220	(±)-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
	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	-	
	(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	1782069-81-1	
	(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	95342-41-9	
	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	253-242-6	852541-25-4	
	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	36861-47-9	
	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	741687-98-9	
	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	852541-30-1	
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	08/07/2021
	Phenol, 4-dodecyl, branched	-	210555-94-5	
	4-isododecylphenol	-	27459-10-5	
	Phenol, 4-isododecyl-	-	27147-75-7	
	Phenol, dodecyl-, branched	310-154-3	121158-58-5	
	Phenol, (tetrapropenyl) derivatives	-	74499-35-7	
218	Phenol, tetrapropylene-	-	57427-55-1	08/07/2021
	orthoboric acid, sodium salt	-	-	
	boric acid (H3BO3), sodium salt, hydrate	-	25747-83-5	
	Boric acid (H3BO3), disodium salt	-	22454-04-2	
	Trisodium orthoborate	238-253-6	14312-40-4	
	Boric acid, sodium salt	215-604-1	1333-73-9	
217	Orthoboric acid, sodium salt	237-560-2	13840-56-7	08/07/2021
	Boric acid (H3BO3), sodium salt (1:1)	-	14890-53-0	
	Medium-chain chlorinated paraffins (MCCP)	-	-	
	Alkanes, C14-16, chloro	-	1372804-76-6	
216	Alkanes, C14-17, chloro	287-477-0	85535-85-9	08/07/2021
	di-, tri- and tetrachlorotetradecane	950-299-5	-	
	Tetradecane, chloro derivs.	-	198840-65-2	
215	glutaral	203-856-5	111-30-8	08/07/2021
214	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	08/07/2021
	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	08/07/2021
	(2R)-3-(4-tert-butylphenyl)-2-methylpropanal	-	75166-31-3	
	2-(4-tert-butylbenzyl)propionaldehyde	201-289-8	80-54-6	
(2S)-3-(4-tert-butylphenyl)-2-methylpropanal	-	75166-30-2		
213	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)	-	-	08/07/2021
	2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	253-057-0	36483-57-5	
	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	-	1522-92-5	
	2,2-bis(bromomethyl)propane-1,3-diol (BMP)	221-967-7	3296-90-0	
	2,3-dibromo-1-propanol (2,3-DBPA)	202-480-9	96-13-9	
212	1,4-dioxane	204-661-8	123-91-1	08/07/2021
211	Diocetyl/in 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
	diocetyl/in dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.	-	-	
	Diocetyl/in dilaurate	222-883-3	3648-18-8	
	Stannane, dioctyl-, bis(coco acyloxy) derivs.	293-901-5	91648-39-4	
210	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	19/01/2021

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209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	25/06/2020
208	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	25/06/2020
207	2-methylimidazole	211-765-7	693-98-1	25/06/2020
206	1-vinylimidazole	214-012-0	1072-63-5	25/06/2020
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	16/01/2020
204	Diisohexyl phthalate	276-090-2	71850-09-4	16/01/2020
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	16/01/2020
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	16/01/2020
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	16/07/2019
201	tris(4-nonylphenyl, branched) phosphite	701-028-2	-	16/07/2019
201	Tris(nonylphenyl) phosphite	247-759-6	26523-78-4	16/07/2019
201	Phenol, 4-nonyl-, phosphite (3:1)	608-492-4	3050-88-2	16/07/2019
200	4-tert-butylphenol	202-679-0	98-54-4	16/07/2019
199	2-methoxyethyl acetate	203-772-9	110-49-6	16/07/2019
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-	16/07/2019
198	Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate	266-578-3	67118-55-2	16/07/2019
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid	236-236-8	13252-13-6	16/07/2019
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride	218-173-8	2062-98-8	16/07/2019
198	Ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	700-242-3	62037-80-3	16/07/2019
197	Pyrene	204-927-3	129-00-0	15/01/2019
196	Phenanthrene	201-581-5	85-01-8	15/01/2019
195	Fluoranthene	205-912-4	206-44-0	15/01/2019
194	Benzo[k]fluoranthene	205-916-6	207-08-9	15/01/2019
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	15/01/2019
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	15/01/2019
191	Terphenyl, hydrogenated	262-967-7	61788-32-7	27/06/2018
190	Octamethylcyclotetrasiloxane	209-136-7	556-67-2	27/06/2018
189	Lead	231-100-4	7439-92-1	27/06/2018
188	Ethylenediamine	203-468-6	107-15-3	27/06/2018
187	Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	27/06/2018
186	Disodium octaborate	234-541-0	12008-41-2	27/06/2018
185	Dicyclohexyl phthalate	201-545-9	84-61-7	27/06/2018
184	Decamethylcyclopentasiloxane	208-764-9	541-02-6	27/06/2018
183	Benzo[ghi]perylene	205-883-8	191-24-2	27/06/2018
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	209-008-0	552-30-7	27/06/2018
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	15/01/2018
181	Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.	939-460-0	-	15/01/2018
181	Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine	300-298-5	93925-00-9	15/01/2018
180	Chrysene	205-923-4	218-01-9	15/01/2018
179	Cadmium nitrate	233-710-6	10325-94-7	15/01/2018
178	Cadmium hydroxide	244-168-5	21041-95-2	15/01/2018
177	Cadmium carbonate	208-168-9	513-78-0	15/01/2018
176	Benz[a]anthracene	200-280-6	56-55-3	15/01/2018
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™")	-	-	15/01/2018
175	1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene	236-948-9	13560-89-9	15/01/2018
175	rel-(1R,4S,4aS,6aS,7S,10R,10aR,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene	-	-	15/01/2018
175	rel-(1R,4S,4aS,6aR,7R,10S,10aS,12aR)-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene	-	-	15/01/2018
174	Perfluorohexane-1-sulphonic acid and its salts	-	-	07/07/2017
174	Potassium perfluorohexane-1-sulphonate	223-393-2	3871-99-6	07/07/2017
174	Perfluorohexane-1-sulphonic acid	206-587-1	355-46-4	07/07/2017
174	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	274-462-9	70225-16-0	07/07/2017
174	Ammonium perfluorohexane-1-sulphonate	269-511-6	68259-08-5	07/07/2017
173	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12/01/2017
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-	12/01/2017
172	Nonadecafluorodecanoic acid	206-400-3	335-76-2	12/01/2017
172	Ammonium nonadecafluorodecanoate	221-470-5	3108-42-7	12/01/2017

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172	Decanoic acid, nonadecafluoro-, sodium salt	-	3830-45-3	12/01/2017
171	4-heptylphenol, branched and linear	-	-	12/01/2017
171	Phenol, heptyl derivs.	276-743-1	72624-02-3	12/01/2017
171	4-heptylphenol	217-862-0	1987-50-4	12/01/2017
170	4,4'-isopropylidenediphenol	201-245-8	80-05-7	12/01/2017
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	20/06/2016
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	-	17/12/2015
168	Perfluorononan-1-oic-acid	206-801-3	375-95-1	17/12/2015
168	Sodium salts of perfluorononan-1-oic-acid	-	-, 21049-39-8	17/12/2015
168	Ammonium salts of perfluorononan-1-oic-acid	-	-, 4149-60-4	17/12/2015
167	Nitrobenzene	202-716-0	98-95-3	17/12/2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17/12/2015
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17/12/2015
164	1,3-propanesultone	214-317-9	1120-71-4	17/12/2015
163	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]	-	-	15/06/2015
163	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	15/06/2015
163	2-(2,4-Dimethylcyclohex-3-ene-1-yl)-5-methyl-(1-methylpropyl)-1,3-dioxane	601-499-3	117933-89-8	15/06/2015
163	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,2S)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1S,2S)-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,2S)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane	700-927-7	-	15/06/2015
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	15/06/2015
163	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	15/06/2015
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	-	15/06/2015
162	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	272-013-1	68648-93-1	15/06/2015
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	271-094-0	68515-51-5	15/06/2015
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	17/12/2014
160	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	17/12/2014
159	Cadmium fluoride	232-222-0	7790-79-6	17/12/2014
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	17/12/2014
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	17/12/2014
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	17/12/2014
155	Sodium peroxometaborate	231-556-4	7632-04-4	16/06/2014
154	Sodium perborate, perboric acid, sodium salt	-	-	16/06/2014
154	Sodium perborate	239-172-9	15120-21-5	16/06/2014
154	Perboric acid, sodium salt	234-390-0	11138-47-9	16/06/2014
153	Cadmium chloride	233-296-7	10108-64-2	16/06/2014
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	16/06/2014
151	Trixylyl phosphate	246-677-8	25155-23-1	16/12/2013
150	Lead di(acetate)	206-104-4	301-04-2	16/12/2013
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16/12/2013
148	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	16/12/2013
147	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	16/12/2013
146	Dihexyl phthalate	201-559-5	84-75-3	16/12/2013
145	Cadmium sulphide	215-147-8	1306-23-6	16/12/2013
144	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20/06/2013
143	Dipentyl phthalate (DPP)	205-017-9	131-18-0	20/06/2013
142	Cadmium oxide	215-146-2	1306-19-0	20/06/2013
141	Cadmium	231-152-8	7440-43-9	20/06/2013
140	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20/06/2013
139	4-Nonylphenol, branched and linear, ethoxylated	-	-	20/06/2013
139	2-[2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol	230-770-5	7311-27-5	20/06/2013
139	26-(4-nonylphenoxy)-3,6,9,12,15,18,21,24-Octaoxaheacosan-1-ol	604-395-6	14409-72-4	20/06/2013

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139	2-[2-(4-nonylphenoxy)ethoxy]ethanol	243-816-4	20427-84-3	20/06/2013
139	Nonylphenol, branched, ethoxylated	500-209-1	68412-54-4	20/06/2013
139	4-Nonylphenol, ethoxylated	500-045-0	26027-38-3	20/06/2013
139	Nonylphenol, ethoxylated (8-EO) (9016-45-9)	931-754-7	-	20/06/2013
139	Nonylphenol, branched, ethoxylated (CAS# 68412-54-4)	932-688-1	-	20/06/2013
139	Nonylphenol, ethoxylated (15-EO) (9016-45-9)	931-756-8	-	20/06/2013
139	Nonylphenol, ethoxylated (10-EO) (9016-45-9)	931-755-2	-	20/06/2013
139	20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	248-743-1	27942-27-4	20/06/2013
139	Nonylphenol, ethoxylated (6,5-EO) (9016-45-9)	931-753-1	-	20/06/2013
139	Nonylphenol, ethoxylated	500-024-6	9016-45-9	20/06/2013
139	Nonylphenol, ethoxylated (EO = 10)	939-993-9	-	20/06/2013
139	Nonylphenol, ethoxylated (EO = 4)	939-975-0	-	20/06/2013
139	Nonylphenol, ethoxylated (polymer)	938-618-6	-	20/06/2013
139	2-[2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy]ethanol	687-833-9	1119449-38-5	20/06/2013
139	2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol	687-832-3	1119449-37-4	20/06/2013
139	Nonylphenolpolyglycoether	932-998-7	-	20/06/2013
139	Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy- (CAS 9016-45-9)	931-562-3	9016-45-9	20/06/2013
139	Isononylphenol, ethoxylated	609-346-2	37205-87-1	20/06/2013
139	4-Nonylphenol, branched, ethoxylated	500-315-8	127087-87-0	20/06/2013
139	26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahehexacosan-1-ol	247-816-5	26571-11-9	20/06/2013
138	Trilead dioxide phosphonate	235-252-2	12141-20-7	19/12/2012
137	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	19/12/2012
136	Tricosafuorododecanoic acid	206-203-2	307-55-1	19/12/2012
135	Tetralead trioxide sulphate	235-380-9	12202-17-4	19/12/2012
134	Tetraethyllead	201-075-4	78-00-2	19/12/2012
133	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19/12/2012
132	Silicic acid, lead salt	234-363-3	11120-22-2	19/12/2012
131	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	272-271-5	68784-75-8	19/12/2012
130	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	19/12/2012
129	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19/12/2012
128	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	19/12/2012
127	Orange lead (lead tetroxide)	215-235-6	1314-41-6	19/12/2012
126	o-toluidine	202-429-0	95-53-4	19/12/2012
125	o-aminoazotoluene	202-591-2	97-56-3	19/12/2012
124	n-pentyl-isopentylphthalate	933-378-9	-	19/12/2012
123	N-methylacetamide	201-182-6	79-16-3	19/12/2012
122	N,N-dimethylformamide	200-679-5	68-12-2	19/12/2012
121	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19/12/2012
120	Methoxyacetic acid	210-894-6	625-45-6	19/12/2012
119	Lead titanium zirconium oxide	235-727-4	12626-81-2	19/12/2012
118	Lead titanium trioxide	235-038-9	12060-00-3	19/12/2012
117	Lead oxide sulfate	234-853-7	12036-76-9	19/12/2012
116	Lead monoxide (lead oxide)	215-267-0	1317-36-8	19/12/2012
115	Lead dinitrate	233-245-9	10099-74-8	19/12/2012
114	Lead cyanamidate	244-073-9	20837-86-9	19/12/2012
113	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19/12/2012
112	Hexahydromethylphthalic anhydride	-	-	19/12/2012
112	Hexahydro-4-methylphthalic anhydride	243-072-0	19438-60-9	19/12/2012
112	Hexahydro-3-methylphthalic anhydride	260-566-1	57110-29-9	19/12/2012
112	Hexahydro-1-methylphthalic anhydride	256-356-4	48122-14-1	19/12/2012
112	Hexahydromethylphthalic anhydride	247-094-1	25550-51-0	19/12/2012
111	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	19/12/2012
110	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	19/12/2012
109	Furan	203-727-3	110-00-9	19/12/2012
108	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	19/12/2012
107	Dioxobis(stearato)trilead	235-702-8	12578-12-0	19/12/2012
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	19/12/2012
105	Dimethyl sulphate	201-058-1	77-78-1	19/12/2012
104	Diisopentyl phthalate	210-088-4	605-50-5	19/12/2012
103	Diethyl sulphate	200-589-6	64-67-5	19/12/2012
102	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	19/12/2012
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	19/12/2012
100	Cyclohexane-1,2-dicarboxylic anhydride	-	-	19/12/2012
100	Cyclohexane-1,2-dicarboxylic anhydride	201-604-9	85-42-7	19/12/2012
100	trans-cyclohexane-1,2-dicarboxylic anhydride	238-009-9	14166-21-3	19/12/2012
100	cis-cyclohexane-1,2-dicarboxylic anhydride	236-086-3	13149-00-3	19/12/2012
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	19/12/2012
98	Biphenyl-4-ylamine	202-177-1	92-67-1	19/12/2012
97	Acetic acid, lead salt, basic	257-175-3	51404-69-4	19/12/2012

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96	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19/12/2012
95	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19/12/2012
94	4-Nonylphenol, branched and linear	-	-	19/12/2012
94	p-nonylphenol	203-199-4	104-40-5	19/12/2012
94	4-(1-ethyl-1-methylhexyl)phenol	257-907-1	52427-13-1	19/12/2012
94	4-(3,6-Dimethyl-3-heptyl)phenol	635-391-2	142731-63-3	19/12/2012
94	4-(3,5-Dimethyl-3-heptyl)phenol	635-389-1	186825-36-5	19/12/2012
94	Phenol, 4-nonyl-, branched	284-325-5	84852-15-3	19/12/2012
94	p-(1,1-dimethylheptyl)phenol	250-339-5	30784-30-6	19/12/2012
94	p-(1-methyloctyl)phenol	241-427-4	17404-66-9	19/12/2012
94	p-isononylphenol	247-770-6	26543-97-5	19/12/2012
94	Phenol, nonyl-, branched	291-844-0	90481-04-2	19/12/2012
94	4-(2,6-Dimethyl-2-heptyl)phenol	635-388-6	521947-27-3	19/12/2012
94	Nonylphenol	246-672-0	25154-52-3	19/12/2012
94	4-(3-ethylheptan-2-yl)phenol	635-696-0	186825-39-8	19/12/2012
94	Isononylphenol	234-284-4	11066-49-2	19/12/2012
93	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19/12/2012
92	4-aminoazobenzene	200-453-6	60-09-3	19/12/2012
91	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	19/12/2012
91	20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol	219-682-8	2497-59-8	19/12/2012
91	4-tert-Octylphenol monoethoxylate	621-345-9	2315-67-5	19/12/2012
91	[No public or meaningful name is available]	621-341-7	2315-61-9	19/12/2012
91	2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol	618-344-0	9002-93-1	19/12/2012
90	4,4'-oxydianiline and its salts	-	-	19/12/2012
90	4,4'-oxydianiline	202-977-0	101-80-4	19/12/2012
89	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19/12/2012
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19/12/2012
87	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19/12/2012
86	1,2-diethoxyethane	211-076-1	629-14-1	19/12/2012
85	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	19/12/2012
84	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0	18/06/2012
83	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18/06/2012
82	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	18/06/2012
81	Formamide	200-842-0	75-12-7	18/06/2012
80	Diboron trioxide	215-125-8	1303-86-2	18/06/2012
79	[4-[[4-anilino-1-naphthyl]]4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5	18/06/2012
78	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9	18/06/2012
77	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18/06/2012
76	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1	18/06/2012
75	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	18/06/2012
74	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	18/06/2012
73	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	18/06/2012
72	1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	18/06/2012
71	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	19/12/2011
70	Trilead diarsenate	222-979-5	3687-31-8	19/12/2011
69	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	19/12/2011
68	Phenolphthalein	201-004-7	77-09-8	19/12/2011
67	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19/12/2011
66	N,N-dimethylacetamide	204-826-4	127-19-5	19/12/2011
65	Lead styphnate	239-290-0	15245-44-0	19/12/2011
64	Lead dipicrate	229-335-2	6477-64-1	19/12/2011
63	Lead diazide, Lead azide	236-542-1	13424-46-9	19/12/2011
62	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19/12/2011
61	Dichromium tris(chromate)	246-356-2	24613-89-6	19/12/2011
60	Calcium arsenate	231-904-5	7778-44-1	19/12/2011
59	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19/12/2011
58	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19/12/2011
57	Arsenic acid	231-901-9	7778-39-4	19/12/2011
56	Aluminosilicate Refractory Ceramic Fibres	-	-	19/12/2011
55	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19/12/2011
54	2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	19/12/2011
53	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19/12/2011
52	1,2-dichloroethane	203-458-1	107-06-2	19/12/2011

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51	Strontium chromate	232-142-6	7789-06-2	20/06/2011
50	Hydrazine	206-114-9	302-01-2, 7803-57-8	20/06/2011
49	2-ethoxyethyl acetate	203-839-2	111-15-9	20/06/2011
48	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20/06/2011
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20/06/2011
46	Lead styphnate	239-290-0	15245-44-0	19/12/2011
45	Lead dipicrate	229-335-2	6477-64-1	19/12/2011
44	Lead diazide, Lead azide	236-542-1	13424-46-9	19/12/2011
43	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19/12/2011
42	Dichromium tris(chromate)	246-356-2	24613-89-6	19/12/2011
41	Calcium arsenate	231-904-5	7778-44-1	19/12/2011
40	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19/12/2011
39	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19/12/2011
39	Arsenic acid	231-901-9	7778-39-4	19/12/2011
39	Aluminosilicate Refractory Ceramic Fibres	-	-	19/12/2011
39	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19/12/2011
38	2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	19/12/2011
37	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19/12/2011
36	1,2-dichloroethane	203-458-1	107-06-2	19/12/2011
35	Strontium chromate	232-142-6	7789-06-2	20/06/2011
34	Hydrazine	206-114-9	302-01-2, 7803-57-8	20/06/2011
33	2-ethoxyethyl acetate	203-839-2	111-15-9	20/06/2011
32	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20/06/2011
31	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20/06/2011
30	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20/06/2011
30	1,2,3-trichloropropane	202-486-1	96-18-4	20/06/2011
30	Cobalt(II) sulphate	233-334-2	10124-43-3	15/12/2010
29	Cobalt(II) dinitrate	233-402-1	10141-05-6	15/12/2010
28	Cobalt(II) diacetate	200-755-8	71-48-7	15/12/2010
27	Cobalt(II) carbonate	208-169-4	513-79-1	15/12/2010
26	Chromium trioxide	215-607-8	1333-82-0	15/12/2010
25	Acids generated from chromium trioxide and their oligomers	-	-	15/12/2010
24	Chromic acid	231-801-5	7738-94-5	15/12/2010
23	Oligomers of chromic acid and dichromic acid	-	-	15/12/2010
22	Dichromic acid	236-881-5	13530-68-2	15/12/2010
21	2-methoxyethanol	203-713-7	109-86-4	15/12/2010
20	2-ethoxyethanol	203-804-1	110-80-5	15/12/2010
19	Trichloroethylene	201-167-4	79-01-6	18/06/2010
18	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18/06/2010
17	Sodium chromate	231-889-5	7775-11-3	18/06/2010
16	Potassium dichromate	231-906-6	7778-50-9	18/06/2010
15	Potassium chromate	232-140-5	7789-00-6	18/06/2010
14	Disodium tetraborate, anhydrous	215-540-4	12179-04-3, 1303-96-4, 1330-43-4	18/06/2010
13	Boric acid	-	-	18/06/2010
12	Boric acid, crude natural	234-343-4	11113-50-1	18/06/2010
12	Boric acid	233-139-2	10043-35-3	18/06/2010
12	Ammonium dichromate	232-143-1	7789-09-5	18/06/2010
12	Acrylamide	201-173-7	79-06-1	30/03/2010
12	Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	13/01/2010
12	Pitch, coal tar, high-temp.	266-028-2	65996-93-2	13/01/2010
11	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13/01/2010
10	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13/01/2010
9	Lead chromate	231-846-0	7758-97-6	13/01/2010
8	Diisobutyl phthalate	201-553-2	84-69-5	13/01/2010
7	Anthracene oil, anthracene-low	292-604-8	90640-82-7	13/01/2010
6	Anthracene oil, anthracene paste, distr. lights	295-278-5	91995-17-4	13/01/2010
5	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13/01/2010
4	Anthracene oil, anthracene paste	292-603-2	90640-81-6	13/01/2010
3	Anthracene oil	292-602-7	90640-80-5	13/01/2010
2	2,4-dinitrotoluene	204-450-0	121-14-2	13/01/2010
1	Triethyl arsenate	427-700-2	15606-95-8	28/10/2008

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Authorisation List is available from the internet site link: <https://echa.europa.eu/authorisation-list> .
Last updated 5 June 2020. Database contains 54 unique substances/entries.

Substance Name	EC Number	CAS Number	Entry no.	Latest application date
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	01	21/02/2013
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	02	21/02/2013
Hexabromocyclododecane (HBCDD)	-	-	03	21/02/2014
gamma-hexabromocyclododecane	-	134237-52-8	03	21/02/2014
beta-hexabromocyclododecane	-	134237-51-7	03	21/02/2014
1,2,5,6,9,10-hexabromocyclododecane	221-695-9	3194-55-6	03	21/02/2014
Hexabromocyclododecane	247-148-4	25637-99-4	03	21/02/2014
alpha-hexabromocyclododecane	-	134237-50-6	03	21/02/2014
Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	04	21/08/2013
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	05	21/08/2013
Dibutyl phthalate (DBP)	201-557-4	84-74-2	06	21/08/2013
Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	07	21/08/2013
Diarsenic trioxide	215-481-4	1327-53-3	08	21/11/2013
Diarsenic pentaoxide	215-116-9	1303-28-2	09	21/11/2013
Lead chromate	231-846-0	7758-97-6	10	21/11/2013
Lead sulfochromate yellow	215-693-7	1344-37-2	11	21/11/2013
Lead chromate molybdate sulfate red	235-759-9	12656-85-8	12	21/11/2013
Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	13	21/02/2014
2,4-dinitrotoluene (2,4-DNT)	204-450-0	121-14-2	14	21/02/2014
Trichloroethylene	201-167-4	79-01-6	15	21/10/2014
Chromium trioxide	215-607-8	1333-82-0	16	21/03/2016
Acids generated from chromium trioxide and their oligomers	-	-	17	21/03/2016
Oligomers of chromic acid and dichromic acid	-	-	17	21/03/2016
Chromic acid	231-801-5	7738-94-5	17	21/03/2016
Dichromic acid	236-881-5	13530-68-2	17	21/03/2016
Sodium dichromate	234-190-3	10588-01-9, 7789-12-0	18	21/03/2016
Potassium dichromate	231-906-6	7778-50-9	19	21/03/2016
Ammonium dichromate	232-143-1	7789-09-5	20	21/03/2016
Potassium chromate	232-140-5	7789-00-6	21	21/03/2016
Sodium chromate	231-889-5	7775-11-3	22	21/03/2016
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	23	22/02/2016
Arsenic acid	231-901-9	7778-39-4	24	22/02/2016
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	25	22/02/2016
1,2-dichloroethane (EDC)	203-458-1	107-06-2	26	22/05/2016
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	27	22/05/2016
Dichromium tris(chromate)	246-356-2	24613-89-6	28	22/07/2017
Strontium chromate	232-142-6	7789-06-2	29	22/07/2017
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	30	22/07/2017
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	31	22/07/2017
1-bromopropane	203-445-0	106-94-5	32	04/01/2019
Diisopentyl phthalate	210-088-4	605-50-5	33	04/01/2019
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	34	04/01/2019
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	35	04/01/2019
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	36	04/01/2019
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	37	04/01/2019
Dipentyl phthalate	205-017-9	131-18-0	38	04/01/2019
N-pentyl-isopentylphthalate	-	776297-69-9	39	04/01/2019
Anthracene oil	292-602-7	90640-80-5	40	04/04/2019
Pitch, coal tar, high-temp.	266-028-2	65996-93-2	41	04/04/2019
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	42	04/07/2019
4-Nonylphenol, branched and linear, ethoxylated	-	-	43	04/07/2019
4-Nonylphenol, branched and linear, ethoxylated	-	-	43	04/01/2021
26-(4-nonylphenoxy)-3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol	604-395-6	14409-72-4	43	04/01/2021
2-[2-(4-nonylphenoxy)ethoxy]ethanol	243-816-4	20427-84-3	43	04/01/2021
Nonylphenol, branched, ethoxylated	500-209-1	68412-54-4	43	04/01/2021
4-Nonylphenol, ethoxylated	500-045-0	26027-38-3	43	04/01/2021
Nonylphenol, ethoxylated	500-024-6	9016-45-9	43	04/01/2021

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Nonylphenol, ethoxylated (6,5-EO) (9016-45-9)	931-753-1	-	43	04/01/2021
Nonylphenol, ethoxylated (15-EO) (9016-45-9)	931-756-8	-	43	04/01/2021
Nonylphenol, ethoxylated (10-EO) (9016-45-9)	931-755-2	-	43	04/01/2021
Nonylphenol, ethoxylated (8-EO) (9016-45-9)	931-754-7	-	43	04/01/2021
2-[2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol	230-770-5	7311-27-5	43	04/01/2021
20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	248-743-1	27942-27-4	43	04/01/2021
Nonylphenol, branched, ethoxylated (CAS# 68412-54-4)	932-688-1	-	43	04/01/2021
Nonylphenol, ethoxylated (EO = 4)	939-975-0	-	43	04/01/2021
Nonylphenol, ethoxylated (polymer)	938-618-6	-	43	04/01/2021
2-[2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy]ethanol	687-833-9	1119449-38-5	43	04/01/2021
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol	687-832-3	1119449-37-4	43	04/01/2021
Nonylphenolpolyglycolether	932-998-7	-	43	04/01/2021
Nonylphenol, ethoxylated (EO = 10)	939-993-9	-	43	04/01/2021
Isononylphenol, ethoxylated	609-346-2	37205-87-1	43	04/01/2021
4-Nonylphenol, branched, ethoxylated	500-315-8	127087-87-0	43	04/01/2021
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxaheacosan-1-ol	247-816-5	26571-11-9	43	04/01/2021
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy- (CAS 9016-45-9)	931-562-3	9016-45-9	43	04/01/2021
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	44	27/02/2023
Dihexyl phthalate	201-559-5	84-75-3	45	27/02/2023
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	-	46	27/02/2023
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	272-013-1	68648-93-1	46	27/02/2023
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	271-094-0	68515-51-5	46	27/02/2023
Trixylyl phosphate	246-677-8	25155-23-1	47	27/05/2023
Sodium perborate, perboric acid, sodium salt	-	-	48	27/05/2023
Sodium perborate	239-172-9	15120-21-5	48	27/05/2023
Perboric acid, sodium salt	234-390-0	11138-47-9	48	27/05/2023
Sodium peroxometaborate	231-556-4	7632-04-4	49	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	27/08/2023
1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexene-1-yl)-5-methyl-5-(1-methylpropyl)-	413-720-9	117933-89-8	50	27/08/2023
2-(2,4-Dimethylcyclohex-3-ene-1-yl)-5-methyl-(1-methylpropyl)-1,3-dioxane	601-499-3	117933-89-8	50	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,2S)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1S,2R)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[(2R)-butan-2-yl]-2-[(1S,2S)-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,2S)-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane	700-927-7	-	50	27/08/2023
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	50	27/08/2023
5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	-	50	27/08/2023
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	51	27/11/2023
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	52	27/11/2023
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	53	27/11/2023
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	54	27/11/2023

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Substances restricted under REACH

Annex XVII to REACH

<https://echa.europa.eu/substances-restricted-under-reach>

Last updated January 24, 2022.

Name	EC no.	CAS no.	Entry no.
Polychlorinated terphenyls (PCTs)	-	-	01
Chloroethene	200-831-0	75-01-4	02
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 (See group members):	-	-	03
Hazard class 4.1	-	-	03
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	-	-	03
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	-	-	03
Hazard class 5.1.	-	-	03
Tris (2,3 dibromopropyl) phosphate	-	126-72-7	04
Benzene	200-753-7	71-43-2	05
Asbestos fibres	-	-	06
Actinolite	-	77536-66-4	06
Tremolite	-	77536-68-6	06
Crocidolite	-	12001-28-4	06
Amosite	-	12172-73-5	06
Chrysotile	-	12001-29-5, 132207-32-0	06
Anthophyllite	-	77536-67-5	06
Tris(aziridinyl)phosphin oxide	208-892-5	545-55-1	07
Polybromobiphenyls, Polybrominatedbiphenyls (PBB)	-	-	08
Polybrominated biphenyls (PBB) except hexabromo-biphenyl	-	-	08
Polybromobiphenyls, Polybrominatedbiphenyls (PBB)	-	59536-65-1	08
Entry 9	-	-	09
o-Nitrobenzaldehyde	209-025-3	552-89-6	09
Soap bark powder (Quillaja saponaria) and its derivatives containing saponines	273-620-4	68990-67-0	09
Wood powder	-	-	09
Powder of the roots of Helleborus viridis and Helleborus niger	-	-	09
Powder of the roots of Veratrum album and Veratrum nigrum	-	-	09
Benzidine and / or its derivatives	-	-	09
Entry 10	-	-	10
Ammonium polysulphide	232-989-1	9080-17-5	10
Ammonium sulphide	235-223-4	12135-76-1	10
Ammonium hydrogen sulphide	235-184-3	12124-99-1	10
Volatile esters of bromoacetic acids	-	-	11
Butyl bromoacetate	242-729-9	18991-98-5	11
Ethyl bromoacetate	203-290-9	105-36-2	11

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Methyl bromoacetate	202-499-2	96-32-2	11
Propyl bromoacetate	-	35223-80-4	11
2-naphthylamine and its salts	-	-	12
2-naphthylamine	202-080-4	91-59-8	12
Salts of 2-naphthylamine	-	-	12
2-naphthylammonium chloride	210-313-6	612-52-2	12
2-naphthylammonium acetate	209-030-0	553-00-4	12
Benzidine and its salts	-	-	13
Salts of benzidine	-	-	13
Benzidine	202-199-1	92-87-5	13
4-Nitrobiphenyl	202-204-7	92-93-3	14
4-Aminobiphenyl xenylamine and its salts	-	-	15
4-Aminobiphenyl xenylamine	202-177-1	92-67-1	15
Lead carbonates	-	-	16
Trilead-bis(carbonate)-dihydroxide 2PbCO ₃ -Pb(OH) ₂	215-290-6	1319-46-6	16
Neutral anhydrous carbonate (PbCO ₃)	209-943-4	598-63-0	16
Lead sulphates	-	-	17
Lead sulphate PbSO ₄	231-198-9	7446-14-2	17
Sulphuric acid, lead salt PbSO ₄	239-831-0	15739-80-7	17
Mercury compounds	-	-	18
Mercury	231-106-7	7439-97-6	18a
Arsenic compounds	-	-	19
Trisodium arsenide	234-952-5	12044-25-6	19
Praseodymium arsenide	234-953-0	12044-28-9	19
Trimagnesium diarsenide	234-954-6	12044-49-4	19
Diarsenic tritelluride	234-955-1	12044-54-1	19
Zinc diarsenide	234-956-7	12044-55-2	19
Nickel diarsenide	235-103-1	12068-61-0	19
Dichromium arsenide	235-499-6	12254-85-2	19
Erbium arsenide	235-501-5	12254-88-5	19
Lanthanum arsenide	235-502-0	12255-04-8	19
Niobium arsenide	235-503-6	12255-08-2	19
Neodymium arsenide	235-504-1	12255-09-3	19
Triantimony arsenide	235-505-7	12255-36-6	19
Samarium arsenide	235-506-2	12255-39-9	19
Yttrium arsenide	235-507-8	12255-48-0	19
Tribarium diarsenide	235-508-3	12255-50-4	19
Tricalcium diarsenide	235-509-9	12255-53-7	19
Germanium arsenide	235-547-6	12271-72-6	19
Trisilver arsenide	235-652-7	12417-99-1	19
Arsenic sulfide	235-720-6	12612-21-4	19
Ammonium dihydrogenarsenate	236-667-1	13462-93-6	19
Potassium arsenite	236-680-2	13464-35-2	19

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Trisodium arsenite	236-681-8	13464-37-4	19
Trisodium arsenate	236-682-3	13464-38-5	19
Zinc arsenate	236-683-9	13464-44-3	19
Tristrontium diarsenate	236-684-4	13464-68-1	19
Tribarium diarsenate	236-762-8	13477-04-8	19
Trinickel bis(arsenate)	236-771-7	13477-70-8	19
Trilithium arsenate	236-773-8	13478-14-3	19
Trisilver arsenate	236-841-7	13510-44-6	19
Sodium metaarsenate	239-171-3	15120-17-9	19
Triethyl arsenite	221-543-1	3141-12-6	19
Trilead diarsenate	222-979-5	3687-31-8	19
Disodium 4-[(o-aronophenyl)azo]-3-hydroxynaphthalene-2,7-disulphonate	222-993-1	3688-92-4	19
Diphenyldiarsenic acid	224-845-1	4519-32-8	19
Dimethylarsinic acid	200-883-4	75-60-5	19
Roxarsone	204-453-7	121-19-7	19
Sodium dimethylarsinate	204-708-2	124-65-2	19
6,6'-dihydroxy-3,3'-diarsene-1,2-diyldianilinium dichloride	205-386-6	139-93-5	19
Oxophenarsine	206-178-8	306-12-7	19
Copper diarsenite	240-574-1	16509-22-1	19
Potassium hexafluoroarsenate	241-102-7	17029-22-0	19
Hydrogen hexafluoroarsenate	241-128-9	17068-85-8	19
N-(p-arsenosophenyl)-1,3,5-triazine-2,4,6-triamine	244-612-8	21840-08-4	19
Aluminium arsenide	245-255-0	22831-42-1	19
Triammonium arsenate	246-428-3	24719-13-9	19
Tricobalt diarsenate	246-429-9	24719-19-5	19
Cobalt arsenide	248-168-6	27016-73-5	19
Nickel arsenide	248-169-1	27016-75-7	19
Tricalcium diarsenite	248-266-9	27152-57-4	19
3-methyl-4-(pyrrolidin-1-yl)benzenediazonium hexafluoroarsenate	248-532-4	27569-09-1	19
Antimony arsenate	249-347-1	28980-47-4	19
Arsenic acid, copper(2+) salt	249-916-4	29871-13-4	19
Lithium hexafluoroarsenate	249-963-0	29935-35-1	19
Ammonium copper arsenate	251-151-6	32680-29-8	19
Europium arsenide	251-206-4	32775-46-5	19
Tristrontium diarsenide	254-407-5	39297-24-0	19
Triphenylsulphonium hexafluoroarsenate(1-)	261-009-5	57900-42-2	19
Zirconium arsenide	262-524-8	60909-47-9	19
Trimanganese arsenide	262-667-6	61219-26-9	19
Disodium 3,6-bis[(o-aronophenyl)azo]-4,5-dihydroxynaphthalene-2,7-disulphonate	263-516-7	62337-00-2	19
Diphenyliodonium hexafluoroarsenate	263-638-0	62613-15-4	19
4-(ethylamino)-2-methylbenzenediazonium hexafluoroarsenate	264-026-6	63217-32-3	19
4-(diethylamino)-2-ethoxybenzenediazonium hexafluoroarsenate	264-027-1	63217-33-4	19
Antimony arsenic oxide	264-904-9	64475-90-7	19

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Arsenic bromide	265-296-8	64973-06-4	19
Cobalt arsenide	265-784-0	65453-05-6	19
Tris(pentane-2,4-dionato-O,O')silicon hexafluoroarsenate	266-621-6	67251-38-1	19
Slimes and Sludges, copper refining	266-977-2	67712-00-9	19
Silicic acid (H ₄ SiO ₄), zinc salt (1:2), arsenic and manganese-doped	271-895-5	68611-46-1	19
Bis(pentane-2,4-dionato-O,O')boron(1+) hexafluoroarsenate(1-)	272-591-5	68892-01-3	19
Antimony oxide (Sb ₂ O ₃), mixed with arsenic oxide (As ₂ O ₃)	273-156-2	68951-38-2	19
Lead alloy, base, dross	273-700-9	69011-59-2	19
Lead, antimonial, dross	273-795-7	69029-51-2	19
Flue dust, lead-refining	273-809-1	69029-67-0	19
Disilver arsenide	274-573-2	70333-07-2	19
Thallium triarsenide	281-902-3	84057-85-2	19
2,6-dimethyl-4-(1-naphthyl)pyrylium hexafluoroarsenate	282-682-1	84282-36-0	19
2,6-dimethyl-4-phenylpyrylium hexafluoroarsenate	282-700-8	84304-15-4	19
4-cyclohexyl-2,6-dimethylpyrylium hexafluoroarsenate	282-701-3	84304-16-5	19
Tris[(8 α)-6'-methoxycinchonan-9(R)-ol] arsenite	303-002-2	94138-87-1	19
Gallium zinc triarsenide	308-577-3	98106-56-0	19
Vanadium(4+) diarsenate (1:1)	308-917-0	99035-51-5	19
Strychnidin-10-one, arsenite (1:1)	309-388-9	100258-44-4	19
Slimes and Sludges, copper electrolytic refining, decopperized, arsenic-rich	309-772-6	100995-81-1	19
Arsenic acid (H ₃ AsO ₄), magnesium salt, manganese-doped	310-019-9	102110-21-4	19
Slimes and Sludges, copper-lead ore roasting off gas scrubbing, arsenic-contg.	310-063-9	102110-62-3	19
Sodium hexafluoroarsenate(V)	624-772-9	12005-86-6	19
Sodium arsenate dibasic heptahydrate	677-900-0	10048-95-0	19
Sodium cacodylate trihydrate	682-793-9	6131-99-3	19
Tritylium hexafluoroarsenate	207-111-5	437-15-0	19
Neoarsphenamine	207-273-7	457-60-3	19
Oxophenarsine hydrochloride	208-682-3	538-03-4	19
Tris[(8 α ,9R)-6'-methoxycinchonan-9-ol] bis(arsenate)	208-971-4	549-59-7	19
Sulfarsphenamine	210-564-1	618-82-6	19
Phenylarsine oxide	211-275-3	637-03-6	19
Gallium arsenide	215-114-8	1303-00-0	19
Indium arsenide	215-115-3	1303-11-3	19
Diarsenic pentaoxide	215-116-9	1303-28-2	19
Arsenic sulfide	215-117-4	1303-33-9	19
Diarsenic triselenide	215-119-5	1303-36-2	19
Diarsenic trioxide	215-481-4	1327-53-3	19
Arsenic	231-148-6	7440-38-2	19
Arsenic acid, sodium salt	231-547-5	7631-89-2	19
Arsenic acid	231-901-9	7778-39-4	19
Disodium hydrogenarsenate	231-902-4	7778-43-0	19
Calcium arsenate	231-904-5	7778-44-1	19
Trisilver arsenite	232-048-5	7784-08-9	19

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Arsenic tribromide	232-057-4	7784-33-0	19
Arsenic trichloride	232-059-5	7784-34-1	19
Trifluoroarsine	232-060-0	7784-35-2	19
Pentafluoroarsorane	232-061-6	7784-36-3	19
Mercury hydrogenarsenate	232-062-1	7784-37-4	19
Manganese hydrogenarsenate	232-063-7	7784-38-5	19
Lead hydrogen arsenate	232-064-2	7784-40-9	19
Potassium dihydrogenarsenate	232-065-8	7784-41-0	19
Diammonium hydrogenarsenate	232-067-9	7784-44-3	19
Arsenic triiodide	232-068-4	7784-45-4	19
Sodium dioxoarsenate	232-070-5	7784-46-5	19
Pentahydroxyarsorane	232-096-7	7786-36-9	19
Flue dust, arsenic-contg.	232-434-3	8028-73-7	19
Lead arsenite	233-083-9	10031-13-7	19
Iron arsenate	233-274-7	10102-49-5	19
Iron bis(arsenate)	233-275-2	10102-50-8	19
Arsenic acid, magnesium salt	233-285-7	10103-50-1	19
Arsenic acid, copper salt	233-286-2	10103-61-4	19
Arsenic acid, calcium salt	233-287-8	10103-62-5	19
Strychnine arsenate	233-970-0	10476-82-1	19
Tricopper arsenide	234-472-6	12005-75-3	19
Dysprosium arsenide	234-473-1	12005-81-1	19
Diiron arsenide	234-474-7	12005-88-8	19
Gadolinium arsenide	234-475-2	12005-89-9	19
Holmium arsenide	234-476-8	12005-92-4	19
Lutetium arsenide	234-477-3	12005-94-6	19
Manganese arsenide	234-478-9	12005-95-7	19
Terbium arsenide	234-479-4	12006-08-5	19
Thallium arsenide	234-481-5	12006-09-6	19
Thulium arsenide	234-482-0	12006-10-9	19
Ytterbium arsenide	234-483-6	12006-12-1	19
Iron diarsenide	234-485-7	12006-21-2	19
Trizinc diarsenide	234-486-2	12006-40-5	19
Iron arsenide	234-947-8	12044-16-5	19
Digallium arsenide phosphide	234-948-3	12044-20-1	19
Tripotassium arsenide	234-949-9	12044-21-2	19
Trilithium arsenide	234-950-4	12044-22-3	19
Organostannic compounds	-	-	20
Di- μ -oxo-di-n-butylstanniohydroxyborane / Dibutyltin hydrogen borate C ₈ H ₁₉ BO ₃ Sn (DBB)	401-040-5	75113-37-0	21
Pentachlorophenol and its salts and esters	-	-	22
N ₂ -benzyl pentachlorophenyl N ₂ -carboxy-L-(2-aminoglutaramate)	237-155-0	13673-51-3	22
Perchlorophenyl N-(benzyloxycarbonyl)-L-isoleucinate	237-156-6	13673-53-5	22
Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate	237-157-1	13673-54-6	22

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Pentachlorophenol	201-778-6	87-86-5	22
Sodium pentachlorophenolate	205-025-2	131-52-2	22
Perchlorophenyl 5-oxo-L-prolinate	249-360-2	28990-85-4	22
Pentachlorophenyl laurate	223-220-0	3772-94-9	22
Potassium pentachlorophenolate	231-911-3	7778-73-6	22
Pentachlorophenol esters	-	-	22
Pentachlorophenol salts	-	-	22
Pentachlorophenyl N-[[[4-methoxyphenyl)methoxy]carbonyl]-L-serinate	245-508-5	23234-97-1	22
Zinc bis(pentachlorophenolate)	220-847-1	2917-32-0	22
Cadmium and its compounds	-	-	23
Cadmium succinate	205-446-1	141-00-4	23
Cadmium dianthranilate	230-343-3	7058-55-1	23
Cadmium	231-152-8	7440-43-9	23
Cadmium bromide	232-165-1	7789-42-6	23
Cadmium fluoride	232-222-0	7790-79-6	23
Cadmium iodide	232-223-6	7790-80-9	23
Cadmium iodate	232-224-1	7790-81-0	23
Cadmium dinitrite	232-225-7	7790-83-2	23
Cadmium wolframate	232-226-2	7790-85-4	23
Cadmium zinc sulfide yellow	232-466-8	8048-07-5	23
Cadmium chloride	233-296-7	10108-64-2	23
Cadmium sulphate	233-331-6	10124-36-4	23
Cadmium myristate	233-489-6	10196-67-5	23
Cadmium nitrate	233-710-6	10325-94-7	23
Cadmium dioleate	233-954-3	10468-30-1	23
Cadmium selenide sulphide	234-342-9	11112-63-3	23
Cadmium titanium trioxide	234-593-4	12014-14-1	23
Tricadmium diphosphide	234-595-5	12014-28-7	23
Antimony, compound with cadmium (2:3)	234-596-0	12014-29-8	23
Cadmium zirconium trioxide	235-251-7	12139-23-0	23
Pentacadmium chloridetriphosphate	235-353-1	12185-64-7	23
Dicadmium niobate	235-357-3	12187-14-3	23
Dicadmium selenide sulphide	235-392-4	12214-12-9	23
Cadmium ditantalum hexaoxide	235-561-2	12292-07-8	23
Cadmium zinc sulphide	235-672-6	12442-27-2	23
Cadmium selenide sulfide	235-724-8	12626-36-7	23
Cadmium sulfoselenide orange	235-758-3	12656-57-4	23
Tricadmium bis(phosphate)	236-764-9	13477-17-3	23
Cadmium silicate	236-765-4	13477-19-5	23
Cadmium sulphite	236-767-5	13477-23-1	23
Diboron tricadmium hexaoxide	237-225-0	13701-66-1	23
Dicadmium hexakis(cyano-C)ferrate(4-)	237-341-1	13755-33-4	23
Cadmium selenite	237-480-8	13814-59-0	23

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Cadmium selenate	237-481-3	13814-62-5	23
Cadmium diricinoleate	237-544-5	13832-25-2	23
Cadmium orthophosphate	237-581-7	13847-17-1	23
Cadmium molybdenum tetroxide	237-752-6	13972-68-4	23
Cadmium disulphamate	237-832-0	14017-36-8	23
Cadmium hydrogen phosphate	237-920-9	14067-62-0	23
Cadmium bis(diethylthiocarbamate)	238-113-4	14239-68-0	23
Cadmium chromate	238-252-0	14312-00-6	23
Cadmium dipotassium tetracyanide	238-371-8	14402-75-6	23
Cadmium tetrafluoroborate	238-490-5	14486-19-2	23
Bis(dibutylthiocarbamate-S,S')cadmium	238-609-0	14566-86-0	23
Bis(pentane-2,4-dionato-O,O')cadmium	238-730-9	14689-45-3	23
Tris(ethylenediamine)cadmium dihydroxide	238-945-8	14874-24-9	23
Cadmium diicosanoate	238-994-5	14923-81-0	23
Cadmium bis(piperidine-1-carbodithioate)	239-025-9	14949-59-8	23
Bis(dimethylthiocarbamate-S,S')cadmium	239-026-4	14949-60-1	23
Dimethylcadmium	208-055-4	506-82-1	23
Cadmium carbonate	208-168-9	513-78-0	23
Cadmium cyanide	208-829-1	542-83-6	23
Cadmium di(acetate)	208-853-2	543-90-8	23
Cadmium oxalate	212-408-8	814-88-0	23
Cadmium dithiocyanate	212-738-2	865-38-3	23
Barium cadmium tetrastearate	214-740-9	1191-79-3	23
Cadmium oxide	215-146-2	1306-19-0	23
Cadmium sulphide	215-147-8	1306-23-6	23
Cadmium selenide	215-148-3	1306-24-7	23
Cadmium telluride	215-149-9	1306-25-8	23
Cadmium di(octanoate)	218-585-8	2191-10-8	23
Cadmium distearate	218-743-6	2223-93-0	23
Cadmium p-toluate	219-345-5	2420-97-5	23
Cadmium bis(2-ethylhexanoate)	219-346-0	2420-98-6	23
Cadmium dilaurate	220-017-9	2605-44-9	23
Cadmium didecanoate	220-650-0	2847-16-7	23
Cadmium bis[benzoate]	221-187-7	3026-22-0	23
Cadmium 4-(1,1-dimethylethyl)benzoate	224-022-7	4167-05-9	23
Cadmium cinnamate	224-509-4	4390-97-0	23
Cadmium diformate	224-729-0	4464-23-7	23
Cadmium sebacate	224-754-7	4476-04-4	23
Cadmium nonan-1-oate	225-839-1	5112-16-3	23
Cadmium dipalmitate	229-199-4	6427-86-7	23
Lauric acid, barium cadmium salt	239-371-0	15337-60-7	23
Disodium tetrakis(cyano-C)cadmate(2-)	239-765-2	15682-87-8	23
Dipotassium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cadmate(2-)	239-801-7	15708-29-9	23

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Cadmium acrylate	239-835-2	15743-19-8	23
Cadmium tellurium trioxide	239-963-9	15851-44-2	23
Cadmium tellurium tetraoxide	239-973-3	15852-14-9	23
Cadmium dilactate	240-181-5	16039-55-7	23
Cadmium divanadium hexoxide	240-203-3	16056-72-7	23
5-oxo-L-proline, cadmium salt	240-269-3	16105-06-9	23
Cadmium propionate	241-066-2	16986-83-7	23
Cadmium hexafluorosilicate(2-)	241-084-0	17010-21-8	23
Bis(ethylenediamine)cadmium(2+) bis[dicyanoaurate(1-)]	242-708-4	18974-20-4	23
Cadmium diphenolate	242-727-8	18991-05-4	23
Cadmium bis(dipentylthiocarbamate)	242-747-7	19010-65-2	23
Cadmium disalicylate	242-749-8	19010-79-8	23
Cadmium hydroxide	244-168-5	21041-95-2	23
Cadmium methacrylate	246-183-2	24345-60-6	23
Cadmium epoxyoctadecanoate	247-560-4	26264-48-2	23
Cadmium toluate	248-480-2	27476-27-3	23
[[N,N'-ethylenebis(glycinato)](2-)-N,N',O,O']cadmium	249-987-1	29977-13-7	23
Cadmium isooctanoate	250-118-3	30304-32-6	23
Cadmium dodecylbenzenesulphonate	250-433-6	31017-44-4	23
Cadmium (1,1-dimethylethyl)benzoate	250-515-1	31215-94-8	23
Cadmium [R-(R*,R*)]-tartrate	251-827-0	34100-40-8	23
Cadmium didocosanoate	251-927-4	34303-23-6	23
Cadmium 3,5,5-trimethylhexanoate	252-918-8	36211-44-6	23
Cadmium(2+) (R)-12-hydroxyoctadecanoate	253-979-3	38517-19-0	23
Potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']cadmate(1-)	256-488-2	49784-42-1	23
Bis[N,N-bis(carboxymethyl)glycinato(3-)]tricadmium	256-679-0	50648-02-7	23
Boric acid, cadmium salt	257-067-6	51222-60-7	23
Cadmium o-toluate	257-860-7	52337-78-7	23
Cadmium bis(4-cyclohexylbutyrate)	259-767-7	55700-14-6	23
Cadmium divalerate	260-498-2	56982-42-4	23
Cadmium sulfoselenide red	261-218-1	58339-34-7	23
Naphthenic acids, cadmium salts	263-053-0	61789-34-2	23
Cadmium neodecanoate	263-352-6	61951-96-0	23
Cadmium bis(heptadecanoate)	263-434-1	62149-56-8	23
Cadmium pentadecanoate	264-124-9	63400-09-9	23
(S)-dichloro[2-[[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]triethylmethylammoniumato]cadmium	265-010-1	64681-08-9	23
Bis(propane-1,2-diyldiamine-N,N')cadmium(2+) bis[bis(cyano-C)aurate(1-)]	267-692-6	67906-19-8	23
Cadmium dilinoleate	267-845-7	67939-62-2	23
Tetrapotassium [[[[nitrilotris(methylene)]tris(phosphonato)](6-)-N,O,O',O'']cadmate(6-)	268-020-4	67989-93-9	23
Cadmium m-toluate	268-458-6	68092-45-5	23
Fatty acids, C10-18, cadmium salts	268-620-6	68131-58-8	23
Fatty acids, C12-18, cadmium salts	268-621-1	68131-59-9	23

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Benzyltriphenylphosphonium tetrachlorocadmate	269-289-0	68214-25-5	23
Pentapotassium hydrogen [[[ethylenebis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)]cadmate(6-)	269-685-3	68309-98-8	23
Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper and lead-doped	269-773-1	68332-81-0	23
Fatty acids, C14-18, cadmium salts	270-067-0	68409-82-5	23
Cadmium, benzoate p-tert-butylbenzoate complexes	270-824-5	68478-53-5	23
Pyrochlore, bismuth cadmium ruthenium	270-855-4	68479-13-0	23
Cadmium sulfide (CdS), solid soln. with zinc sulfide, aluminum and cobalt and copper and silver-doped	272-220-7	68784-10-1	23
Barium cadmium calcium chloride fluoride phosphate, antimony and manganese-doped	272-257-9	68784-55-4	23
Fatty acids, tall-oil, cadmium salts	272-499-5	68855-80-1	23
Fatty acids, C8-18 and C18-unsatd., cadmium salts	272-529-7	68876-84-6	23
Cadmium sulfide (CdS), aluminum and copper-doped	272-539-1	68876-98-2	23
Cadmium sulfide (CdS), aluminum and silver-doped	272-540-7	68876-99-3	23
Cadmium sulfide (CdS), copper chloride-doped	272-541-2	68877-00-9	23
Cadmium sulfide (CdS), silver chloride-doped	272-542-8	68877-01-0	23
Cadmium sulfide (CdS), copper and lead-doped	272-581-0	68891-87-2	23
Fatty acids, tallow, hydrogenated, cadmium salts	273-203-7	68953-39-9	23
Resin acids and Rosin acids, cadmium salts	273-320-3	68956-81-0	23
Hydrogen [4-[(5-chloro-4-methyl-2-sulphophenyl)azo]-3-hydroxynaphthalene-2-carboxylato(3-)]cadmate(1-)	273-461-0	68966-97-2	23
Cadmium, dross	273-707-7	69011-69-4	23
Wastewater, cadmium sulfate electrolytic, acid	273-721-3	69012-21-1	23
Flue dust, cadmium-refining	273-754-3	69012-57-3	23
Calcines, cadmium residue	273-806-5	69029-63-6	23
Leach residues, cadmium-refining	273-811-2	69029-70-5	23
Residues, cadmium-refining	273-819-6	69029-77-2	23
Slimes and Sludges, cadmium-refining, oxidized	273-831-1	69029-90-9	23
Slimes and Sludges, cadmium sump tank	273-832-7	69029-91-0	23
Cadmium(2+) 12-hydroxyoctadecanoate	273-881-4	69121-20-6	23
Cadmium potassium 1-(hydroxyethylidene)bisphosphonate(1:2:1)	273-906-9	69190-99-4	23
Fatty acids, C12-18, barium cadmium salts	274-304-9	70084-75-2	23
Cadmium selenide (CdSe), solid soln. with cadmium sulfide	275-290-7	71243-75-9	23
(R)-12-hydroxyoleic acid, barium cadmium salt	275-370-1	71411-66-0	23
Tetra-μ-chlorodichlorobis[2-[[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]triethylmethylammoniumato]tricadmium, stereoisomer	276-100-5	71861-27-3	23
Fatty acids, coco, cadmium salts	276-952-8	72869-63-7	23
Zircon, cadmium yellow	277-135-9	72968-34-4	23
Cadmium isononanoate	283-660-4	84696-56-0	23
Cadmium isooctadecanoate	284-428-5	84878-36-4	23
Cadmium tert-decanoate	284-429-0	84878-37-5	23
Cadmium bis(nonylphenolate)	284-441-6	84878-48-8	23
Cadmium bis(octylphenolate)	284-444-2	84878-51-3	23
Flue dust, lead-manufg., cadmium-rich	285-554-3	85117-02-8	23
Waste solids, cadmium-electrolysis, thallium-rich	285-572-1	85117-20-0	23

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Fatty acids, C9-11-branched, cadmium salts	287-817-8	85586-15-8	23
Bis(5-oxo-L-prolinato-N1,O2)cadmium	288-974-5	85958-86-7	23
Bis(5-oxo-DL-prolinato-N1,O2)cadmium	289-081-3	85994-31-6	23
Benzenesulfonic acid, mono-C10-13-alkyl derivs., cadmium salts	290-645-6	90194-35-7	23
Benzoic acid, cadmium salt, basic	290-764-3	90218-85-2	23
Decanoic acid, branched, cadmium salts	291-155-5	90342-19-1	23
Hexanoic acid, 2-ethyl-, cadmium salt, basic	291-438-3	90411-62-4	23
Propanoic acid, cadmium salt, basic	292-013-5	90529-78-5	23
Cadmium zinc lithopone yellow	292-385-9	90604-89-0	23
Cadmium lithopone yellow	292-386-4	90604-90-3	23
Leach residues, cadmium cake	293-309-7	91053-44-0	23
Leach residues, zinc ore-calcine, cadmium-copper ppt.	293-311-8	91053-46-2	23
Fatty acids, castor-oil, hydrogenated, cadmium salts	294-296-0	91697-35-7	23
Fatty acids, C8-10-branched, cadmium salts	296-092-7	92257-06-2	23
Leach residues, zinc refining flue dust, cadmium-thallium ppt.	296-097-4	92257-11-9	23
Fatty acids, C9-13-neo-, cadmium salts	296-441-3	92704-12-6	23
Fatty acids, olive-oil, cadmium salts	296-445-5	92704-15-9	23
Fatty acids, peanut-oil, cadmium salts	296-449-7	92704-19-3	23
Fatty acids, rape-oil, cadmium salts	296-454-4	92704-24-0	23
Fatty acids, C14-18 and C18-unsatd., branched and linear, hydrogenated, cadmium salts	296-564-2	92797-28-9	23
Nonanoic acid, branched, cadmium salt	297-692-1	93686-40-9	23
Carbonic acid, cadmium salt	298-586-8	93820-02-1	23
Bis(2-ethylhexyl mercaptoacetato -O',S)cadmium	299-281-2	93858-50-5	23
Cadmium bis(o-nonylphenolate)	299-701-4	93894-07-6	23
Cadmium bis(p-nonylphenolate)	299-703-5	93894-08-7	23
Cadmium bis[p-(1,1,3,3-tetramethylbutyl)phenolate]	299-704-0	93894-09-8	23
Cadmium (Z)-hexadec-9-enoate	299-705-6	93894-10-1	23
Cadmium isodecanoate	300-973-4	93965-24-3	23
Cadmium bis(isoundecanoate)	300-980-2	93965-30-1	23
Cadmium dimethylhexanoate	301-320-6	93983-65-4	23
Cadmium tetrapentyl bis(phosphate)	303-977-4	94232-49-2	23
Cadmium isooctyl phthalate (1:2:2)	304-193-5	94247-16-2	23
Cadmium (1-ethylhexyl) phthalate (1:2:2)	304-482-6	94275-93-1	23
Cadmium octyl phthalate (1:2:2)	304-483-1	94275-94-2	23
Leach residues, cadmium-contg. flue dust	305-417-4	94551-70-9	23
Cadmium isohexadecanoate	306-072-2	95892-12-9	23
Cadmium diisobutyl dimaleate	306-446-5	97259-82-0	23
Zircon, cadmium orange	309-029-6	99749-34-5	23
Cadmium chloride phosphate (Cd5Cl(PO4)3), manganese-doped	309-489-8	100402-53-7	23
Flue dust, copper-lead blast furnace, cadmium-indium-enriched	309-645-5	100656-55-1	23
Dodecanoic acid, cadmium salt, basic	309-789-9	101012-89-9	23
Octadecanoic acid, cadmium salt, basic	309-794-6	101012-93-5	23
Octadecanoic acid, 12-hydroxy-, cadmium salt, basic	309-795-1	101012-94-6	23

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Cadmium oxide (CdO), solid soln. with calcium oxide and titanium oxide (TiO ₂), praseodymium-doped	309-896-0	101356-99-4	23
Cadmium selenide (CdSe), solid soln. with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped	309-897-6	101357-00-0	23
Cadmium selenide (CdSe), solid soln. with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped	309-898-1	101357-01-1	23
Cadmium selenide (CdSe), solid soln. with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped	309-899-7	101357-02-2	23
Cadmium selenide (CdSe), solid soln. with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped	309-900-0	101357-03-3	23
Cadmium selenide (CdSe), solid soln. with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped	309-901-6	101357-04-4	23
Cadmium oxide (CdO), solid soln. with magnesium oxide, tungsten oxide (WO ₃) and zinc oxide	310-029-3	102110-30-5	23
Silicic acid, zirconium salt, cadmium pigment-encapsulated	310-077-5	102184-95-2	23
CADMIUM ACETATE, DIHYDRATE	611-525-5	5743-04-4	23
cadmium sulphate hydrate (3:8)	616-572-5	7790-84-3	23
Cadmium (II) chloride monohydrate	621-024-3	35658-65-2	23
Cadmium perchlorate hexahydrate	629-339-8	10326-28-0	23
Cadmium chloride hydrate	629-592-4	654054-66-7	23
cadmium chloride, hydrate(2:5)	640-998-0	7790-78-5	23
Cadmium compounds	-	-	23
Monomethyl — tetrachlorodiphenyl methane Trade name: Ugilec 141	-	76253-60-6	24
Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121, Ugilec 21	-	-	25
Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT	-	99688-47-8	26
Nickel and its compounds	-	-	27
Nickel compounds	-	-	27
Nickel	231-111-4	7440-02-0	27
Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.	-	-	28
Carcinogen category 1B (Table 3.1)/ carcinogen category 2 (Table 3.2) listed in Appendix 2	-	-	28
Carcinogen category 1A (Table 3.1)/ carcinogen category 1 (Table 3.2) listed in Appendix 1	-	-	28
Substances which are classified as germ cell mutagen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 3 or Appendix 4, respectively.	-	-	29
Mutagen category 1B (Table 3.1)/ mutagen category 2 (Table 3.2) listed in Appendix 4	-	-	29
Mutagen category 1A (Table 3.1)/ mutagen category 1 (Table 3.2) listed in Appendix 3	-	-	29
Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	-	-	30
Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	-	-	30
Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5	-	-	30
Entry 31	-	-	31
Creosote oil; wash oil	263-047-8	61789-28-4	31
Tar acids, coal, crude; crude phenols	266-019-3	65996-85-2	31
Distillates (coal tar), upper; heavy anthracene oil	266-026-1	65996-91-0	31
Distillates (coal tar), naphthalene oils; naphthalene oil	283-484-8	84650-04-4	31

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Creosote, wood	232-419-1	8021-39-4	31
Creosote oil, acenaphthene fraction; wash oil	292-605-3	90640-84-9	31
Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline	310-191-5	122384-78-5	31
Creosote; wash oil	232-287-5	8001-58-9	31
Anthracene oil	292-602-7	90640-80-5	31
Chloroform	200-663-8	67-66-3	32
1,1,2-Trichloroethane	201-166-9	79-00-5	34
1,1,2,2-Tetrachloroethane	201-197-8	79-34-5	35
1,1,1,2-Tetrachloroethane	-	630-20-6	36
Pentachloroethane	200-925-1	76-01-7	37
1,1-Dichloroethene	200-864-0	75-35-4	38
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	-	-	40
Hexachloroethane	200-666-4	67-72-1	41
Azocolourants and Azodyes	-	-	43
A mixture of: disodium (6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)chromate(1-); trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromate(1-)	405-665-4	118685-33-9	43
Diphenylether, octabromo derivative C ₁₂ H ₂ Br ₈ O	-	-	45
Entry 46	-	-	46
Nonylphenol C ₆ H ₄ (OH)C ₉ H ₁₉	246-672-0	25154-52-3	46
Nonylphenol ethoxylates (C ₂ H ₄ O) _n C ₁₅ H ₂₄ O	-	-	46
Nonylphenol ethoxylates (C ₂ H ₄ O) _n C ₁₅ H ₂₄ O	-	-	46a
Nonylphenol, ethoxylated	500-024-6	9016-45-9	46a
4-Nonylphenol, ethoxylated	500-045-0	26027-38-3	46a
Isononylphenol, ethoxylated	609-346-2	37205-87-1	46a
4-Nonylphenol, branched, ethoxylated	500-315-8	127087-87-0	46a
Nonylphenol, branched, ethoxylated	500-209-1	68412-54-4	46a
Chromium VI compounds	-	-	47
Toluene	203-625-9	108-88-3	48
Trichlorobenzene	204-428-0	120-82-1	49
Polycyclic-aromatic hydrocarbons (PAH)	-	-	50
Benzo[a]pyrene (BaP)	-	50-32-8	50
Dibenzo[a,h]anthracene (DBAhA)	-	53-70-3	50
Benzo[a]anthracene (BaA)	-	56-55-3	50
Chrysen (CHR)	-	218-01-9	50
Benzo[j]fluoranthene (BjFA)	-	205-82-3	50
Benzo[b]fluoranthene (BbFA)	-	205-99-2	50
Benzo[k]fluoranthene (BkFA)	-	207-08-9	50
Benzo[e]pyrene (BeP)	-	192-97-2	50
Diisobutyl phthalate (DIBP); Dibutyl phthalate (DBP); Benzyl butyl phthalate (BBP); Bis(2-ethylhexyl) phthalate (DEHP)	-	-	51

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Diisobutyl phthalate	201-553-2	84-69-5	51
Bis (2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	51
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	51
Dibutyl phthalate (DBP)	201-557-4	84-74-2	51
The following phthalates (or other CAS and EC numbers covering the substance) (See group members) [Entry 52]	-	-	52
Di-n-octyl phthalate (DNOP)	204-214-7	117-84-0	52
Di-"isodecyl" phthalate (DIDP)	247-977-1	26761-40-0	52
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	271-091-4	68515-49-1	52
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	271-090-9	68515-48-0	52
Di-"isononyl" phthalate (DINP)	249-079-5	28553-12-0	52
2-(2-methoxyethoxy)ethanol (DEGME)	203-906-6	111-77-3	54
2-(2-butoxyethoxy)ethanol (DEGBE)	203-961-6	112-34-5	55
Methylenediphenyl diisocyanate (MDI) including the following specific isomers (See group members):	-	-	56
4,4'-Methylenediphenyl diisocyanate	202-966-0	101-68-8	56
Methylenediphenyl diisocyanate (MDI)	247-714-0	26447-40-5	56
2,4'-Methylenediphenyl diisocyanate	227-534-9	5873-54-1	56
2,2'-Methylenediphenyl diisocyanate	219-799-4	2536-05-2	56
Cyclohexane	203-806-2	110-82-7	57
Ammonium nitrate (AN)	229-347-8	6484-52-2	58
Dichloromethane	200-838-9	75-09-2	59
Acrylamide	201-173-7	79-06-1	60
Dimethyl fumarate (DMFu)	210-849-0	624-49-7	61
Entry 62	-	-	62
Phenylmercury 2-ethylhexanoate	236-326-7	13302-00-6	62
Phenylmercury neodecanoate	247-783-7	26545-49-3	62
Phenylmercury propionate	203-094-3	103-27-5	62
Phenylmercury acetate	200-532-5	62-38-4	62
Phenylmercury octanoate	-	13864-38-5	62
Lead and its compounds	-	-	63
Lead	231-100-4	7439-92-1	63
Lead compounds	-	-	63
1,4-Dichlorobenzene	203-400-5	106-46-7	64
Inorganic ammonium salts	-	-	65
4,4'-isopropylidenediphenol	201-245-8	80-05-7	66
Bis(pentabromophenyl) ether	214-604-9	1163-19-5	67
Perfluorooctanoic acid and its salts	-	-	68
Methanol	200-659-6	67-56-1	69
Octamethylcyclotetrasiloxane (D4); Decamethylcyclopentasiloxane (D5)	-	-	70
Octamethylcyclotetrasiloxane	209-136-7	556-67-2	70
Decamethylcyclopentasiloxane	208-764-9	541-02-6	70
1-methyl-2-pyrrolidone	212-828-1	872-50-4	71
The following substances which are classified as carcinogenic, mutagenic or toxic for reproduction, category 1A or 1B (See group members) [Entry 72]	-	-	72

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(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silanetriol and any of its mono-, di- or tri-O-(alkyl) derivatives	-	-	73