



Substances of Very High Concern (SVHC)

Substances of Very High Concern (SVHCs) are chemicals that are subject to restriction within the European Union under the REACH (Registration, Evaluation, Authorisation and Restriction of

CHemicals) Regulation (EC) No 1907/2006, which came into force 1st June 2007. These substances pose potential impacts on both human health and the environment.



A Candidate List of SVHC is maintained by the European Chemicals Agency (ECHA), a body established to oversee the technical, scientific and administrative aspects of REACH. Inclusion in this list signifies that the ECHA is considering imposing a requirement for authorisation for

some or all uses. The first list of SVHCs was published on 28th October 2008 and since then it has been updated many times to include new candidates. The most recent update occurred on 17th January 2022 bringing the total number of SVHC listed to 223.

Substances may be identified as SVHCs if they possess one or more of the following hazard properties according to category 1A or 1B of the CLP (Classification, Labelling and Packaging) Regulation (EC) No 1272/2008 or REACH Annex XIII:

Article 57a)	Carcinogenic
Article 57b)	Mutagenic
Article 57c)	Toxic for Reproduction
Article 57d)	Persistent, Bioaccumulative and Toxic (PBT)
Article 57e)	Very Persistent and Very Bioaccumulative (vPvB)
Article 57f)	Substances may also be added on a case-by-case basis if they possess similar properties and yield an equivalent level of concern (ELoC) to those categorised above. This clause captures substances that may be neurotoxic, endocrine-disrupting or otherwise hazardous to health.



The Listing Procedure (Biannual)

EU Member States or the ECHA, at the request of the European Commission, may propose inclusion of a substance on the Candidate List of SVHCs. They do so by preparing a dossier in line with the requirements set out in Annex XV to REACH. The intent to propose a new SVHC is openly published in the registry of intentions, on ECHA's website and includes the data and justification for identifying the substance as an SVHC, as well as information on volumes on the EU market, the uses and possible alternatives to the substance. A 45-day consultation period follows to enable stakeholders to pass comment or provide additional information. Where no challenges are received the substance is incorporated into the Candidate List. If the basis for inclusion is

challenged, the Member State Committee (MSC) are called upon to review the evidence. A unanimous decision results in inclusion on the Candidate List. When agreement cannot be reached then the review is further escalated to the Commission.

Once a substance is identified as a SVHC, suppliers are obligated to notify the ECHA if the article, substance or mixture they produce contains a SVHC in quantities above one tonne per year and if the substance is present above a concentration of 0.1% (w/w). Other obligations on the supplier include supply of a safety data sheet (SDS) and dissemination of information of safe usage.

Authorisation (1-1.5 years)

Inclusion of a substance in the Candidate List does not outright prohibit its use. The listing of a substance is the first step towards approval or restriction of a chemical. The ECHA regularly review the Candidate List for substances that should be included in the Authorisation List. Information received during the SVHC consultation is used to guide decisions on whether to prioritise a substance. Since usage may already be governed by other regulations, primary focus is on compounds for which current restrictions may be deemed insufficient. Priority is also given to substances with PBT or vPVB properties, those used in high volumes or which are widely dispersed during usage. For each substance a draft recommendation is prepared. This includes a 'sunset date' after which the use of a substance is prohibited, and a cut-off date for applications to continue using the product. The recommendation also includes any exempted uses and their review periods. A consultation period of approximately three months follows, after which Member State Committee returns their opinion and a recommendation is submitted by the

ECHA to the European Commission for a conclusion. The first list of substances subject to authorisation (known as Annex XIV) was published in February 2011 and was further expanded in February 2012.

Companies wishing to continue using a substance included in the Authorisation List after the sunset date must apply for authorisation before application deadline. Authorisation may be granted if use of the substance is considered safe provided the risks are adequately minimised or controlled and use of the substance is demonstrated to be important on socio-economic ground. SVHCs should be progressively replaced with less harmful alternatives wherever technically and economically feasible. Where no safer alternative exists, the applicant is obliged to work towards a safer substitution. Authorisations that are granted are 'time limited' and have to be renewed. They may also be reviewed at any time during the authorisation period.

Reference

ECHA Website: <https://echa.europa.eu/substances-of-very-high-concern-identification-explained>



SVHC (Substances of
very high concern):

ECHA-REACH directive:
Updated January 2022



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Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
NEW 223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	Toxic for reproduction (Article 57c)	17/01/2022		15039.11	Vinyltris(2-methoxyethoxy)silane	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	
						N/A		HI-TEC 511; X-4261		
NEW 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	255881-94-8	PBT (Article 57d)	17/01/2022		15040.12	S-(Tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O,O-dimethyl phosphorodithioate	Hi-TEC 511; X-4261 (O,O-dimethyl); 4,7-Methanoindene-5-thiol, 3a,4,5,6,7,7a-hexahydro-, O,O-dimethyl phosphorodithioate	86043-45-8 (for 8-yl)	
						15041.16	S-(Tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O,O-diisopropyl phosphorodithioate	Hi-TEC 511; X-4261 (O,O-diisopropyl); 4,7-Methanoindene-5-thiol, 3a,4,5,6,7,7a-hexahydro-, O,O-diisopropyl phosphorodithioate	255881-94-8	
						15042.18	S-(Tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O,O-diisobutyl phosphorodithioate	Hi-TEC 511; X-4261 (O,O-diisobutyl); 4,7-Methanoindene-5-thiol, 3a,4,5,6,7,7a-hexahydro-, O,O-diisobutyl phosphorodithioate	255881-94-8	
						15043.26	S-(Tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O,O-di-2-ethylhexyl phosphorodithioate	Hi-TEC 511; X-4261 (O,O-di-2-ethylhexyl); 4,7-Methanoindene-5-thiol, 3a,4,5,6,7,7a-hexahydro-, O,O-di-2-ethylhexyl phosphorodithioate	255881-94-8	
NEW 221	6,6-Di-tert-butyl-2,2'-methylene-p-cresol	119-47-1	Toxic for reproduction (Article 57c)	17/01/2022		15044.23	2,2'-Methylenebis[4-methyl-6-tert-butylphenol]	6,6-Di-tert-butyl-2,2'-methylene-p-cresol; DBMC	119-47-1	Phenols RM catalogue: In preparation; list of Bisphenols
	(±)-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)					10245.18	3-(4-Methylbenzylidene)camphor	4-MBC, EnzaCamene	36861-47-9	
	(3E)-1,7,7-Trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1782969-81-1					(3E)-1,7,7-trimethyl-3-[[4-methylphenyl)methylidene]bicyclo[2.2.1]heptan-2-one		1782969-81-1	
	(1R,3E,4S)-1,7,7-Trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	95342-41-9					(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		95342-41-9	
NEW 220	1S,3Z,4R)-1,7,7-Trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4	Endocrine disrupting properties (Article 57(f) - human health)	17/01/2022			2Z)-4,7,7-trimethyl-2-[[4-methylphenyl)methylidene]bicyclo[2.2.1]heptan-3-one		852541-25-4	BMF 73: Sunscreens
	(±)-1,7,7-Trimethyl-3-[[4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	36861-47-9				10245.18	3-(4-Methylbenzylidene)camphor	4-MBC, EnzaCamene	36861-47-9	
	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	741687-98-9					(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one		741687-98-9	
	(1S,3E,4R)-1,7,7-Trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	822541-30-1					(1S,3E,4R)-1,7,7-Trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one			
	(1R,3Z,4S)-1,7,7-Trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-21-0					(1R,3Z,4S)-1,7,7-Trimethyl-3-[[4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one		852541-21-0	
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) Phenol, dodecyl-, branched Phenol (tetrapropenyl) derivatives Phenol, 4-dodecyl, branched 4-Isododecylphenol Phenol, tetrapropylene Phenol, 4-isodocyl	121158-58-5 74499-35-7 210555-94-5 27459-10-5 57427-55-1 27147-75-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	08/07/2021		8109.18 8108.18 11331.18	See 8109.18 below See 8109.18 below 4-Dodecylphenol, mixture of isomers 2,4,6-Tri-tert-butylphenol 4-sec-Butyl-2,6-di-tert-butylphenol See 8109.18 above See 8109.18 above See 8109.18 above		210555-94-5 732-26-3 17540-75-9	Phenols RM catalogue: (In preparation)

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Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature	
218	Orthoboric acid, sodium salt					14907.0	Orthoboric acid		10043-35-3	Substance Information - ECHA (europa.eu)	
						14908.0	Sodium metaborate, tetrahydrate		10555-76-7		
						13141.0	Sodium perborate	PBS	7632-04-4		
						13142.0	Sodium perborate monohydrate	PBS-1 (Mono)	10332-33-9		
						13143.0	Sodium perborate tetrahydrate	PBS-4 (Tetra)	10486-00-7		
						14909.0	Sodium borate pentahydrate		11130-12-4		
							N/A				
							N/A				
	Boric acid (H3BO3), sodium salt, hydrate	25747-83-5	Toxic for reproduction (Article 57c)	08/07/2021							
	Boric acid, disodium salt	22454-04-2									
	Trisodium orthoborate	14312-40-4									
	Boric acid, sodium salt	1333-73-9									
	Orthoboric acid (H3BO3), sodium salt	13840-56-7									
	Boric acid (H3BO3), sodium salt (1:1)	14890-53-0									
217	Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17		PBT (Article 57d) vPvB (Article 57e)	08/07/2021						BMF 10: PCAs www.chloffin.eu	
	Alkanes, C14-C16, Chloro	1372804-76-6									
	Alkanes, C14-C17, Chloro	85535-85-9					14871.X	Chlorinated paraffins (C14-C17, MCCP), technical mix	MCCP		
	Di-, Tri-, tetrachlorotetradecane	N/A					CLF14870.14	Chloroparaffin single chain mixture C14 Cl2-Cl6	MCCP		
		N/A					CLF14811.14	Chloroparaffin single chain mixture C14 Cl4-Cl9; 58.7% Cl (NMR)	MCCP		
		198840-65-2						<u>Several singles available:</u>	MCCP		
							1670.14	1,2-Dichlorotetradecane	MCCP		701920-83-4
							1676.14	1,1,1,3-Tetrachlorotetradecane	MCCP		865306-25-8
							13256.14	1,2,4,5-Tetrachlorotetradecane	MCCP		N/A
							1677.14	1,2,13,14-Tetrachlorodecane	MCCP		221155-23-3
							CLF14132.14	1,2,7,8,11,12-Hexachlorotetradecane	MCCP		N/A
							CLF14737.14	Hexachlorotetradecane, mixture of isomers	MCCP		N/A
							CLF14796.14	3,4,7,8,11,12-Hexachlorotetradecane, stereoisomer mix	MCCP		N/A
							1678.14	1,1,1,3,12,14,14,14-Octachlorotetradecane	MCCP		865306-26-9
				14068.14	1,2,5,6,9,10,13,14-Octachlorotetradecane	MCCP	N/A				
216	Glutaral	111-30-8	Respiratory sensitising properties (Article 57(f) - human health)	08/07/2021		14872.5	Glutaral	Glutaraldehyde	111-30-8		
215	4,4'-(1-Methylpropylene)bisphenol	77-40-7	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	08/07/2021		12521.16	Bisphenol B	BPB	77-40-7	BMF 89 Bisphenols (in preparation)	
214	2-(4-tert-Butylbenzyl)propionaldehyde and its individual stereoisomers										
	(2R)-3-(4-tert-Butylphenyl)propionaldehyde	75166-31-3			08/07/2021	N/A	See 9092.14, below				
	2-(4-tert-Butylbenzyl)-2-methylpropanal	80-54-6				9092.14	Butylphenyl methylpropional	Racemic	80-54-6		
(2S)-3-(4-tert-Butylphenyl)-2-methylpropanal	75166-30-2					N/A	See 9092.14, above				
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)		Carcinogenic (Article 57a)	08/07/2021						Flame Retardant RM Catalogue	
	2,2-Dimethylpropan-1-ol, tribromo derivative (TBNPA)	36483-57-5						See 11107.5 below			
	3-Bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	1522-92-5					11107.5	3-Bromo-2,2-bisbromomethyl-1-propanol	TBNPA		1522-92-5
	2,2-Bis(bromomethyl)propane-1,3-diol (BMP)	3296-90-0					2671.5	2,2-Bisbromomethyl-1,3-propanediol	DBNPG		3296-90-0
	2,3-Dibromo-1-propanol (2,3-DBPA)	96-13-9				14408.3	2,3-Dibromopropan-1-ol	DPB; Brominex 257	96-13-9		

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212	1,4-Dioxane	123-91-1	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)	08/07/2021		12016.4	1,4-Dioxane (Stabilized with BHT)	Dioxane	123-91-1	
211	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 Stannane, dioctyl-, bis(coco acyloxy) derivs. Diocetyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. Diocetyl tin dilaurate	91648-39-4 N/A 3648-18-8	Toxic for reproduction (Article 57c)	19/01/2021		14873.5	See 14873.5 below See 14873.5 below Dipocetyl tin dilaurate			BMF 9: Tin organics
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	Toxic for reproduction (Article 57c)	19/01/2021		14867.10	Tetraethylene glycol dimethyl ether	Tetraglyme	143-24-8	
209	Butyl 4-hydroxybenzoate	94-26-8	Endocrine disrupting properties (Article 57(f) - human health)	25/06/2020		10207.11 10208.11 10218.11 10219.11 10226.11	n-Butyl 4-hydroxybenzoate iso-Butyl 4-hydroxybenzoate n-Butyl 4-hydroxybenzoate-2,3,5,6-d4 n-Butyl 4-hydroxybenzoate-butyl-d9 iso-Butyl 4-hydroxybenzoate-2,3,5,6-d4	Butylparaben Isobutylparaben	91-26-8 4247-02-3 1219798-67-0 1216904-65-2 1219805-33-0	BMF 64: Parabens
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	Toxic for reproduction (Article 57c)	25/06/2020		15302.18	Dibutylbis(pentane-2,4-dionato-O,O')tin	U 220	22673-19-4	BMF 9: Tin organics
207	2-Methylimidazole	693-98-1	Toxic for reproduction (Article 57c)	25/06/2020		15299.4 15300.4 15301.4	2-Methylimidazole 2-Methylimidazole-d3 (methyl-d3) (90%) 2-Methylimidazole-d5 (4,5-d2,methyl-d3) (major)	2-Methyl-1(H)-imidazole 2-Methylimidazole-d3 (methyl-d3) (90%) 2-Methylimidazole-d5 (4,5-d2, methyl-d3) (major)	693-98-1 83413-07-4 697806-98-7	
206	1-Vinylimidazole	1072-63-5	Toxic for reproduction (Article 57c)	25/06/2020		15298.5	1-Vinylimidazole	1-Ethenyl-1(H)-imidazole	1072-63-5	
205	Perfluorobutane sulfonic acid (PFBS) and its salts		Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)	16/01/2020		2041.4	Perfluorobutane sulfonic acid	PFBS	375-73-5	BMF 98: PFAS
204	Diisohexyl phthalate	71850-09-4	Toxic for reproduction (Article 57c)	16/01/2020		10887.20 12330.20 10144.2	Diisohexyl phthalate, techn: Branched and linear isomer mixture Di-n-hexyl phthalate-3,4,5,6-d4 Bis(4-methyl-2-pentyl) phthalate-3,4,5,6-d4	DIHP, branched and linear isomermixture DHP-d4	68515-50-4 1015854-55-3 1398066-13-1	Phthalate and Plasticizer Ref. Mat. Catalogue
203	2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	Toxic for reproduction (Article 57c)	16/01/2020		14218.15	2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	UV 907	71868-10-5	BMF 73: Sunscreens
202	2-Benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Toxic for reproduction (Article 57c)	16/01/2020		14219.23	2-Benzyl-2-dimethylamino-4'-morpholinobutyrophenone	UV 369	119313-12-1	
201	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides		Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)	16/07/2019		14110.6 14111.6 14112.6 14115.7	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionyl chloride 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid ammonium salt Methyl 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate		13252-13-6 72848-57-8 62037-80-3 13140-34-6	BMF 98: PFAS
200	2-Methoxyethyl acetate	110-49-6	Toxic for reproduction (Article 57c)	16/07/2019		10418.5	2-Methoxyethyl acetate		110-49-6	
199	4-tert-Butylphenol	98-54-4	Endocrine disrupting properties (Article 57(f) - environment)	16/07/2019		1423.10 2282.10	4-tert-Butylphenol 4-tert-Butylphenol-d9-2,3,5,6-d4		98-54-4 225386-58-3	Phenol and Phenolethoxylates RM Cat.
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)		Endocrine disrupting properties (Article 57(f) - en)	16/07/2019		14145.45 14146.45 14147.45	Tris(nonylphenol) phosphite, unspecified Tris(4-n-nonylphenol) phosphite Tris(4-nonylphenol, branched) phosphite	TNPP 4-NP (4-n-NP) (linear) 4-NP (branched); Available on request	26523-78-4 3050-88-2 N/A; EC 701-028-2	

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Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
197	1,7,7-Trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	Endocrine disrupting properties (Article 57(f) - environment)	15/01/2019		14058.17	1,7,7-Trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	3-Benzylidenecamphor; 3-Benzylidene-2-bornane	15087-24-8	BMF 73: Sunscreens
						14059.17	3-Benzylidenecamphor-4'-sulfonic acid		56039-58-6	
						10245.18	1,7,7-Trimethyl-3-(4-methylphenylmethylene)bicyclo[2.2.1]heptan-2-one	3-(4-Methylbenzylidene)camphor	36861-47-9	
						14062.18	(+/-)-3-(4-Methylbenzylidene-d4)camphor		1219806-41-3	
						14061.21	Camphor benzalkonium methyl sulfate	BCM	52793-97-2	
196	2,2-Bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	Toxic for reproduction (Article 57c)	15/01/2019		14057.18	2,2-Bis(4'-hydroxyphenyl)-4-methylpentane	Bis MIBK; BisP-MIKB; NSC 73727	6807-17-6	BMF 89 Bisphenols (in preparation)
195	Benzo[k]fluoranthene	207-08-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	15/01/2019		0265.20	Benzo[k]fluoranthene		207-08-9	BMF 40: Priority PAHs
						1349.20	Benzo[k]fluoranthene-d12		93952-01-3	
						12841.20	Benzo[k]fluoranthene-13C6		1397194-60-3	
						1322.20	9-Fluorobenzo[k]fluoranthene		113600-15-0	
194	Fluoranthene	206-44-0	PBT (Article 57d) vPvB (Article 57e)	15/01/2019		0260.16	Fluoranthene		206-44-0	BMF 40: Priority PAHs
						1337.16	Fluoranthene-d10		93951-69-0	
						12838.16	Fluoranthene-13C6		12841.20	
						1319.16	3-Fluorofluoranthene		1691-66-3	
193	Phenanthrene	85-01-8	vPvB (Article 57e)	15/01/2019		0816.14	Phenanthrene		85-01-8	BMF 40: Priority PAHs
						0389.14	Phenanthrene-d10		1517-22-2	
						12061.14	Phenanthrene-13C6		1189955-53-0	
						1316.14	3-Fluorophenanthrene		440-40-4	
192	Pyrene	129-00-0	PBT (Article 57d) vPvB (Article 57e)	15/01/2019		0235.16	Pyrene		129-00-0	BMF 40: Priority PAHs
						0329.16	Pyrene-d10		1718-52-1	
						12737.16	Pyrene-13C3		1346601-04-4	
						1318.16	1-Fluoropyrene		1691-65-2	
191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride); (TMA)	552-30-7	Respiratory sensitising properties (Article 57(f) - human health)	27/06/2018		13233.9	1,2,4-Benzenetricarboxylic acid anhydride	Trimellitic anhydride; TMA	552-30-7	
190	Benzo[ghi]perylene	191-24-2	PBT (Article 57d) vPvB (Article 57e)	27/06/2018		0222.22	Benzo[ghi]perylene		191-24-2	BMF 40: Priority PAHs
						1089.22	Benzo[ghi]perylene-d12		93951-66-7	
						17839.22	Benzo[ghi]perylene-13C6		917378-13-3	
189	Octamethylcyclotetrasiloxane (D4)	556-67-2	PBT (Article 57d) vPvB (Article 57e)	27/06/2018		13018.8	Volasil 244 (Techn.)	D4	556-67-2	BMF 59: Cyclic siloxanes
						13020.X	Volasil 344 (Techn.)	D4+D5	556-67-2/	
						9685.8	Octamethylcyclotetrasiloxane (D4)	D4	541-02-6	
						13924.8	Octamethylcyclotetrasiloxane-13C4	D4-13C4	2086337-19-9	
188	Decamethylcyclopentasiloxane (D5)	541-02-6	PBT (Article 57d) vPvB (Article 57e)	27/06/2018		13019.10	Volasil 245 (Techn.)	D5	541-02-6	BMF 59: Cyclic siloxanes
						13020.X	Volasil 344 (Techn.)	D4+D5	556-67-2/	
						9686.10	Decamethylcyclopentasiloxane (D5)	D5	541-02-6	
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	PBT (Article 57d) vPvB (Article 57e)	27/06/2018		9687.12	Dodecamethylcyclohexasiloxane (D6)	D6	540-97-6	
186	Dicyclohexyl phthalate (DCHP)	84-61-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	27/06/2018		2100.20	Dicyclohexyl phthalate	DCHP	84-61-7	Phthalate and Plasticizer RM Catalogue
						9366.20	Dicyclohexyl phthalate-3,4,5,6-d4	DCHP-d4	358731-25-6	
						13119.20	Dicyclohexyl phthalate-1,2,3,4,5,6-13C6	DCHP-13C6	N/A	
185	Disodium octaborate	1330-43-4	Toxic for reproduction (Article 57c)	27/06/2018		13248.0	Disodium octaborate		1330-43-4	
184	Ethylenediamine (EDA)	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)	27/06/2018		13235.2	Ethylenediamine		107-15-3	
183	Lead	7439-92-1	Toxic for reproduction (Article 57c)	27/06/2018		13247.0	Lead powder		7439-92-1	
182	Terphenyl, hydrogenated	61788-32-7	vPvB (Article 57e)	27/06/2018		13234.X	Terphenyl, hydrogenated		61788-32-7	
181	Benz[a]anthracene	56-55-3	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	15/01/2018		0201.18	Benz[a]anthracene		56-55-3	BMF 40: Priority PAHs
						1087.18	Benz[a]anthracene-d12		1718-53-2	
						12605.18	Benz[a]anthracene-13C6 (Ring D-13C6)		917378-11-1 (undef. labelling)	

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
180	Cadmium carbonate	513-78-0	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	15/01/2018		13126.1	Cadmium carbonate, 99.998 %		513-78-0	
179	Cadmium hydroxide	21041-95-2	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	15/01/2018		13127.0	Cadmium hydroxide, 99.98 %		21041-95-2	
178	Cadmium nitrate	10022-68-1	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	15/01/2018		13128.0	Cadmium nitrate tetrahydrate, 99.999 %		10022-68-1	
		10325-94-7				13129.0	Cadmium nitrate solution		10325-94-7	
177	Chrysene	218-01-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	15/01/2018		0212.18	Chrysene		218-01-9	BMF 40: Priority PAHs
						1024.18	Chrysene-d12		1719-03-5	
						12733.18	Chrysene-13C6 (Ring A-13C6)		1397177-72-8	
						1900.18	1-Fluorochrysene		1051914-84-1	
176	Dodecachloropentacyclo[12.2.1.16.9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™")	-	vPvB (Article 57e)	15/01/2018		8770.18	Dechlorane Plus; 1,2,3,4,5,6,7,8,12,12,13,13-Dodecachlor-1,4,4a,5,8,8a,9,9a,10,10a-decahydro-1,4:5,8:9,10-tetramethanoanthracene	DDC-CO	13560-89-9	Flame Retardant Reference Materials Catalogue
						11141.18	syn Dechlorane Plus	syn DDC-CO	135821-03-3	
						11142.18	anti Dechlorane Plus	anti DDC-CO	135821-74-8	
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	Endocrine disrupting properties (Article 57(f) - environment)	15/01/2018		13130.2 13131.1 1440.13	Please enquire 1,3,4-Thiadiazolidine-2,5-dithione Formaldehyde, 37 % in water, stabilized with 7-8 % methanol 4-n-Heptylphenol	Bismuthiol	1072-71-5 50-00-0 1987-50-4	
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	vPvB (Article 57e)	07/07/2017		8581.6	Perfluorohexane sulfonic acid, potassium salt	PFHxS-K	3871-99-6	BMF 98: PFAS
173	4,4'-Isopropylidenediphenol (bisphenol A)	80-05-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	12/01/2017		1220.15	Bisphenol A	BpA	80-05-7	BMF 89 Bisphenols (in preparation)
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	Toxic for reproduction (Article 57c) PBT (Article 57d)	12/01/2017		2823.10	n-Perfluorodecanoic acid	PFDA	335-76-2	BMF 98: PFAS
171	4-Heptylphenol, branched and linear (4-HPbl)	-	Endocrine disrupting properties (Article 57(f) - environment)	12/01/2017		1440.13	4-n-Heptylphenol		1987-50-4	Phenol and Phenolethoxylates RM Catalogue
						8918.13	2,6-Dimethyl-4-(1,1-dimethylpropyl)phenol		91798-63-9	
						8917.13	4-(1-Ethyl-1-methylpropyl)-2-methylphenol		775-93-9	
170	p-(1,1-Dimethylpropyl)phenol (PTAP)	80-46-6	Endocrine disrupting properties (Article 57(f) - environment)	12/01/2017		1433.11	4-tert-Amylphenol	PTAB	80-46-6	Phenol and Phenolethoxylates RM Cat.
169	Benzo[def]chrysene (same as benzo[a]pyrene)	50-32-8	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)	20/06/2016		0239.20	Benzo[a]pyrene		50-32-8	BMF 40 Edition 2 Priority PAHs
						1088.20	Benzo[a]pyrene-d12		63466-71-7	
						12734.20	Benzo[a]pyrene-13C4 (7,8,9,10-13C4)		N/A	
168	Nitrobenzene	98-95-3	Toxic for reproduction (Article 57c)	17/12/2015		8946.6	Nitrobenzene		98-95-3	
167	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	vPvB (Article 57e)	17/12/2015		13132.20	2-(3',5'-Di-tert-butyl-2'-hydroxyphenyl)-5-chlorobenzotriazole	UV-327	3864-99-1	BMF 73: Sunscreens
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	vPvB (Article 57e)	17/12/2015		13133.20	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	UV-350	36437-37-3	
165	1,3-Propanesultone	1120-71-4	Carcinogenic (Article 57a)	17/12/2015		13134.3	1,3-Propanesultone		214-317-9	
164	Perfluorononanoic acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	Toxic for reproduction (Article 57c) PBT (Article 57d)	17/12/2015		2715.9	Perfluorononanoic acid	PFNA	375-95-1	BMF 98: PFAS

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
163	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)	68515-51-5	Toxic for reproduction (Article 57c)	15/06/2015		S-4864	1,2-Benzenedicarboxylic acid, di-C7-11 isomer mixture Diisononyl phthalate with C8-C10 branched alkyl o-phthalate, C9 rich techn. Diisononyl phthalate (C9-alkyl ester isomer mixture, techn.)	Synthetic Santicizer 711	68515-42-4	Phthalate and Platicizer Reference Materials Catalogue
		68648-93-1				9916.26			68515-48-0	
						11194.26			28553-12-0	
162	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]		vPvB (Article 57e)	15/06/2015		11179.17	Amber dioxane isomer mixture	Karanal isomer mixture; 2-(2,4-Dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-3-dioxane isomer mixture	117933-89-8	
161	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment)	17/12/2014; 28/10/2008	21/02/2015	1224.24	Bis(2-ethyl-1-hexyl) phthalate	DEHP	117-81-7	Phthalate and Platicizer RM Catalogue
160	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	PBT (Article 57d) vPvB (Article 57e)	17/12/2014		13135.22	2-(2'-Hydroxy-3'-5'-di-tert-amyphenyl)benzotriazole	UV-328	25973-55-1	BMF 73: Sunscreens
159	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	PBT (Article 57d) vPvB (Article 57e)	17/12/2014		13136.20	2-(3,5-Di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole	UV-330	3846-71-7	
158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	Toxic for reproduction (Article 57c)	17/12/2014		11002.36	DOTE	8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dioctyl-7-oxo-, 2-ethylhexyl ester 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4-[[2-[[2-ethylhexyl]oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-, 2-ethylhexyl ester	15571-58-1	BMF 9: Tinorganics
						11003.38	MOTE		27107-89-7	
157	Cadmium fluoride	7790-79-6	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	17/12/2014		13137.0	Cadmium fluoride, 99.99%		7790-79-6	
156	Cadmium sulphate	10124-36-4	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	17/12/2014		13138.0	Cadmium sulfate, anhydrous; 99%		10124-36-4	
155	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)		Toxic for reproduction (Article 57c)	17/12/2014		11002.36	DOTE	8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dioctyl-7-oxo-, 2-ethylhexyl ester 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4-[[2-[[2-ethylhexyl]oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-, 2-ethylhexyl ester	15571-58-1	BMF 9: Tinorganics
						11003.38	MOTE		27107-89-7	
154	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	Toxic for reproduction (Article 57c)	16/06/2014		10887.20	Diisohexyl phthalate, techn: Branched and linear isomer mixture	DIHP, 1,2-Benzenedicarboxylic acid, 1,2-dihexyl ester, branched and linear isomermixture	68515-50-4	Phthalate and Platicizer RM Catalogue
153	Cadmium chloride	10108-64-2	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	16/06/2014		13139.0	Cadmium chloride, anhydrous, 99%		10108-64-2	
152	Sodium perborate, perboric acid, sodium salt	N/A	Toxic for reproduction (Article 57c)	16/06/2014		13141.0	Sodium perborate See above/below	PBS	7632-04-4	
151	Sodium peroxometaborate	7632-04-4	Toxic for reproduction (Article 57c)	16/06/2014		13142.0	Sodium perborate monohydrate Sodium perborate tetrahydrate	PBS-1 (Mono) PBS-4 (Tetra)	10332-33-9	
						13143.0			10486-00-7	
150	Cadmium sulphide	1306-23-6	Carcinogenic (Article 57a) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	16/12/2013		13140.0	Cadmium sulfide, powder; 99.995%		1306-23-6	
149	Dihexyl phthalate	84-75-3	Toxic for reproduction (Article 57c)	16/12/2013		2101.20	Di-n-hexyl phthalate		84-75-3	Phthalate and Platicizer RM Catalogue
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	Carcinogenic (Article 57a)	16/12/2013		10542.32	Direct Red 28, 98%	Congo red	573-58-0	
147	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)	1937-37-7	Carcinogenic (Article 57a)	16/12/2013		10545.34	Direct Black 38	Chlorazol Black E	1937-37-7	

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:											
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature							
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	Toxic for reproduction (Article 57c)	16/12/2013		8466.3	Ethylenethiourea	2-Imidazolidinethione	96-45-7								
145	Lead di(acetate)	301-04-2	Toxic for reproduction (Article 57c)	16/12/2013		13144.4	Lead (II) acetate	Lead diacetate	301-04-2								
144	Trixylyl phosphate	25155-23-1	Toxic for reproduction (Article 57c)	16/12/2013		10265.24	Trixylyl phosphate, technical mixture	TXP	25155-23-1	BMF 79: Trixylyl phosphate							
						10279.24	Trixylyl phosphate, purified ion m/z 410 (hexamethyl=TXP)	TXP	25155-23-1								
						11214.21	Trixylyl phosphate, purified ion m/z 368 (trimethyl)	TXP-3xMethyl	N/A								
						11215.22	Trixylyl phosphate, purified ion m/z 382 (tetramethyl)	TXP-2xMethyl	N/A								
						11216.23	Trixylyl phosphate, purified ion m/z 396 (pentamethyl)	TXP-1xMethyl	N/A								
						11217.25	Trixylyl phosphate, purified ion m/z 424 (heptamethyl)	TXP+1xMethyl	N/A								
						11143.24	Tris(2,3-dimethylphenyl) phosphate	2,3-TXP	65695-97-8								
						11144.24	Tris(2,4-dimethylphenyl) phosphate	2,3-TXP	3862-12-2								
						11145.24	Tris(2,5-dimethylphenyl) phosphate	2,3-TXP	19074-59-0								
						11146.24	Tris(2,6-dimethylphenyl) phosphate	2,3-TXP	121-06-2								
						11147.24	Tris(3,4-dimethylphenyl) phosphate	2,3-TXP	3862-11-1								
						11148.24	Tris(3,5-dimethylphenyl) phosphate	2,3-TXP	25653-16-1								
						143	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]		Endocrine disrupting properties (Article 57(f) - environment)		20/06/2013	01/04/2021	2044.15	4-Nonylphenol, mixture of nonyl isomers, "Type A"		84852-15-3	Phenol and Phenoethoxylate Reference Materials Catalogue
													1833.17	4-Nonylphenol monoethoxylate, mixture of nonylisomers	4-Nonylphenol EO, mixture of isomers	158054-23-0	
1832.19	4-Nonylphenol diethoxylate, mixture of nonylisomers	4-Nonylphenol 2EO, mixture of isomers	155679-84-8 (65455-66-5 for the unspecified substit.)														
1976.21	4-Nonylphenol triethoxylate, mixture of nonylisomers	4-Nonylphenol 3EO, mixture of isomers	27176-95-0														
1977.23	4-Nonylphenol tetraethoxylate, mixture of nonylisomers	4-Nonylphenol 4EO, mixture of isomers	27176-97-2														
10167.25	4-Nonylphenol pentaethoxylate, mixture of nonylisomers	4-Nonylphenol 5EO, mixture of isomers	26264-02-8														
10168.27	4-Nonylphenol hexaethoxylate, mixture of nonylisomers	4-Nonylphenol 6EO, mixture of isomers	27177-01-1														
1450.15	4-n-Nonylphenol		104-40-5														
1978.17	4-n-Nonylphenol monoethoxylate	4-n-Nonylphenol EO	104-35-8 (27986-36-3, 28679-13-2 unspecified alternatives)														
1979.19	4-n-Nonylphenol diethoxylate	4-n-Nonylphenol 2EO	20427-84-3 (27176-93-8 unspcified)														
8582.21	4-n-Nonylphenol triethoxylate	4-n-Nonylphenol 3EO	51437-95-7														
10133.25	4-n-Nonylphenol pentaethoxylate	4-n-Nonylphenol 5EO	20636-48-0														
10169.27	4-n-Nonylphenol hexaethoxylate	4-n-Nonylphenol 6EO	34166-38-6														
10134.35	4-n-Nonylphenol decaethoxylate	4-n-Nonylphenol 10EO	244149-17-5														
10135.45	4-n-Nonylphenol pentadecaethoxylate	4-n-Nonylphenol 15EO	17692-59-0														
8625.15	4-n-Nonylphenol-13C6 (ring13C6)		211947-56-7														
8626.17	4-n-Nonylphenol-13C6 monoethoxylate	4-n-Nonylphenol-13C6 EO	1346600-52-9														
8627.19	4-n-Nonylphenol-13C6 diethoxylate	4-n-Nonylphenol-13C6 EO	1346602-11-6														
12479.15	4-(3,6-Dimethyl-3-heptyl)phenol		142731-63-3														
12472.17	4-(3,6-Dimethyl-3-heptyl)phenol monoethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol EO	1119449-37-4														
12473.19	4-(3,6-Dimethyl-3-heptyl)phenol diethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol 2EO	1119449-38-5														
12476.15	4-(3,6-Dimethyl-3-heptyl)phenol-13C6		1173020-38-6														
12477.17	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 monoethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 EO	1173019-61-8														
12478.19	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 diethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 2EO	1173019-36-8														

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
142	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	Toxic for reproduction (Article 57c) PBT (Article 57d)	20/06/2013		2822.8 2191.8 2042.8	n-Perfluorooctanoic acid, ammonium salt Perfluorooctanoic acid, sodium salt n-Perfluorooctanoic acid	PFOA-NH4 PFOA-Na PFOA	3825-26-1 335-95-5 335-67-1	BMF 98: PFAS
141	Cadmium	7440-43-9	Carcinogenic (Article 57a) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	20/06/2013		13146.0	Cadmium powder; 99.9%		7440-43-9	
140	Cadmium oxide	1306-19-0	Carcinogenic (Article 57a) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	20/06/2013		13147.0	Cadmium oxide; 99%		215-146-2	
139	Dipentyl phthalate (DPP)	131-18-0	Toxic for reproduction (Article 57c)	20/06/2013	07/04/2020	2099.18 2893.18 13117.18 8425.18 12329.18 8539.18 9925.18	Di-n-pentyl phthalate Di-n-pentyl phthalate-3,4,5,6-d4 Di-n-pentyl phthalate-3,4,5,6-13C6 Diisopentyl phthalate (diisoamyl phthalate) Diisopentyl phthalate-3,4,5,6-d4 n-Pentylisopentyl phthalate n-Pentylisopentyl phthalate-3,4,5,6-d4 (n-Pentyl-3-methylbutyl phthalate-3,4,5,6-d4)	Di-n-amylyl phthalate, DnPP, DPP DPP-d4 DPP-13C6 DiPP, Di-(4-Methyl-1-butyl) phthalate DiPP-d4 PiPP, n-Pentyl-3-methyl-1-butyl phthalate PiPP-d4	131-18-0 358730-89-9 N/A 605-50-5 13465597-80-5 776297-69-9 N/A	Phthalate and Plasticizer Reference Materials Catalogue
138	Pentadecafluorooctanoic acid (PFOA)	335-67-1	Toxic for reproduction (Article 57c) PBT (Article 57d)	20/06/2013		2042.8	n-Perfluorooctanoic acid	PFOA	335-67-1	BMF 98: PFAS
137	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	Toxic for reproduction (Article 57c)	19/12/2012	07/04/2020	8604.18 5-4868 8539.18 9925.18	n-Pentylisopentyl phthalate (synthetic mixture with di-n- and diiso-): See also 5-4868 Di-n-pentyl-, diisopentyl-, isopentylpentyl phthalates mixture n-Pentylisopentyl phthalate n-Pentylisopentyl phthalate-3,4,5,6-d4 (n-Pentyl-3-methylbutyl phthalate-3,4,5,6-d4)	PiPP, n-Pentyl-3-methyl-1-butyl phthalate PiPP-d4	84777-06-0 84777-06-0 776297-69-9 N/A	Phthalates and Plasticizers Reference Materials Catalogue
136	1,2-Diethoxyethane	629-14-1	Toxic for reproduction (Article 57c)	19/12/2012		13145.6	1,2-Diethoxyethane	Diethylglycol	629-14-1	
135	1-Bromopropane (n-propyl bromide)	106-94-5	Toxic for reproduction (Article 57c)	19/12/2012	07/04/2020	12279.3	1-Bromopropane, 99%		106-94-5	
134	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	Toxic for reproduction (Article 57c)	19/12/2012		13189.11	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		143860-04-2	
133	4,4'-Methylenedi-o-toluidine	838-88-0	Carcinogenic (Article 57a)	19/12/2012		2787.15	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	4,4'-methylenedi-o-toluidine	838-88-0	
132	4,4'-Oxydianiline and its salts	101-80-4	Carcinogenic (Article 57a) Mutagenic (Article 57b)	19/12/2012		14036.12	4,4'-Diaminodiphenyl ether	4,4'-oxydianiline	101-80-4	
131	4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]		Endocrine disrupting properties (Article 57(f) - environment)	19/12/2012		1446.14 3689.16 3753.18 3754.20 10170.24 10171.26 9395.32 9767.14 10281.16 13111.18	4-tert-Octylphenol 4-tert-Octylphenol monoethoxylate 4-tert-Octylphenol diethoxylate 4-tert-Octylphenol triethoxylate 4-tert-Octylphenol pentaethoxylate 4-tert-Octylphenol hexaethoxylate 4-tert-Octylphenol nonaethoxylate 4-tert-Octylphenol-13C6 4-tert-Octylphenol-13C6 monoethoxylate 4-tert-Octylphenol-13C6 diethoxylate	4-tert-Octylphenol 4-tert-Octylphenol EO 4-tert-Octylphenol 2EO 4-tert-Octylphenol 3EO 4-tert-Octylphenol 5EO 4-tert-Octylphenol 6EO 4-tert-Octylphenol 9EO 4-tert-Octylphenol-13C6 4-tert-Octylphenol-13C6 EO 4-tert-Octylphenol-13C6 2EO	140-66-9 2315-67-5 2315-61-9 2315-62-0 2315-64-2 N/A N/A 1173020-24-0 1173019-48-1 1173020-69-3	Phenol and Phenoethoxylate Reference Materials Catalogue
130	4-Aminoazobenzene	60-09-3	Carcinogenic (Article 57a)	19/12/2012		10155.12	4-Aminoazobenzene	4-(Phenylazo)aniline	60-09-3	
129	4-Methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	Carcinogenic (Article 57a)	19/12/2012		2080.7	2,4-Diaminotoluene		95-80-7	
128	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]					2044.15 1833.17 1832.19 1976.21 1977.23 10167.25	4-Nonylphenol, mixture of nonyl isomers 4-Nonylphenol monoethoxylate, mixture of nonylisomers 4-Nonylphenol diethoxylate, mixture of nonylisomers 4-Nonylphenol triethoxylate, mixture of nonylisomers 4-Nonylphenol tetraethoxylate, mixture of nonylisomers 4-Nonylphenol pentaethoxylate, mixture of nonylisomers	4-Nonylphenol EO, mixture of isomers 4-Nonylphenol 2EO, mixture of isomers 4-Nonylphenol 3EO, mixture of isomers 4-Nonylphenol 4EO, mixture of isomers 4-Nonylphenol 5EO, mixture of isomers	84852-15-3 158054-23-0 155679-84-8 (65455-66-5 unspecified substitution) 27176-95-0 27176-97-2 26264-02-8	

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
128	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		Endocrine disrupting properties (Article 57(f) - environment)	19/12/2012		10168.27	4-Nonylphenol hexaethoxylate, mixture of nonylisomers	4-Nonylphenol 6EO, mixture of isomers	27177-01-1	Phenol and Phenoethoxylate Reference Materials Catalogue
						1450.15	4-n-Nonylphenol		104-40-5	
						1978.17	4-n-Nonylphenol monoethoxylate	4-n-Nonylphenol EO	104-35-8, (27986-36-3, 28679-13-2 unspecified)	
						1979.19	4-n-Nonylphenol diethoxylate	4-n-Nonylphenol 2EO	20427-84-3 (27176-93-8 unspecified)	
						8582.21	4-n-Nonylphenol triethoxylate	4-n-Nonylphenol 3EO	51437-95-7	
						10133.25	4-n-Nonylphenol pentaethoxylate	4-n-Nonylphenol 5EO	20636-48-0	
						10169.27	4-n-Nonylphenol hexaethoxylate	4-n-Nonylphenol 6EO	34166-38-6	
						10134.35	4-n-Nonylphenol decaethoxylate	4-n-Nonylphenol 10EO	244149-17-5	
						10135.45	4-n-Nonylphenol pentadecaethoxylate	4-n-Nonylphenol 15EO	17692-59-0	
						8625.15	4-n-Nonylphenol-13C6 (ring13C6)		211947-56-7	
						8626.17	4-n-Nonylphenol-13C6 monoethoxylate	4-n-Nonylphenol-13C6 EO	1346600-52-9	
						8627.19	4-n-Nonylphenol-13C6 diethoxylate	4-n-Nonylphenol-13C6 EO	1346602-11-6	
						12479.15	4-(3,6-Dimethyl-3-heptyl)phenol		142731-63-3	
						12472.17	4-(3,6-Dimethyl-3-heptyl)phenol monoethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol EO	1119449-37-4	
						12473.19	4-(3,6-Dimethyl-3-heptyl)phenol diethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol 2EO	1119449-38-5	
						12476.15	4-(3,6-Dimethyl-3-heptyl)phenol-13C6		1173020-38-6	
						12477.17	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 monoethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 EO	1173019-61-8	
12478.19	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 diethoxylate	4-(3,6-Dimethyl-3-heptyl)phenol-13C6 2EO	1173019-36-8							
127	6-Methoxy-m-toluidine (p-cresidine)	120-71-8	Carcinogenic (Article 57a)	19/12/2012		2788.8	2-Methoxy-5-methylaniline		120-71-8	
126	[Phthalato(2-)]dioxotrilead	69011-06-9	Toxic for reproduction (Article 57c)	19/12/2012		13155.8	Dibasic lead acetate		69011-06-9	
125	Acetic acid, lead salt, basic	51404-69-4	Toxic for reproduction (Article 57c)	19/12/2012		13201.0	Lead(II) acetate, basic		51404-69-4	
124	Biphenyl-4-ylamine	92-67-1	Carcinogenic (Article 57a)	19/12/2012		2783.12	4-Aminobiphenyl		92-67-1	BMC 14: PCBs
123	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	PBT (Article 57d) vPvB (Article 57e)	19/12/2012		1811.12	Decabromodiphenyl ether	BDE-209	1163-19-5	Flame Retardant RM Catalogue
122	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]		Respiratory sensitising properties (Article 57(f) - human health)	19/12/2012		13148.8	1,2-Cyclohexanedicarboxylic anhydride, cis + trans		85-42-7	Phthalates and Plasticizers Reference Materials Catalogue
						13149.8	(±)-cis -1,2-Cyclohexanedicarboxylic anhydride		13149-00-3	
						13150.8	(±)-trans -1,2-Cyclohexanedicarboxylic anhydride		14166-21-3	
121	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	Respiratory sensitising properties (Article 57(f) - human health)	19/12/2012		3883.2	Azodicarbonamide		123-77-3	
120	Dibutyltin dichloride (DBTC)	683-18-1	Toxic for reproduction (Article 57c)	19/12/2012		1982.8	Di-n-butyltin dichloride	ADCA	683-18-1	BMF 9: Tinorganics
119	Diethyl sulphate	64-67-5	Carcinogenic (Article 57a) Mutagenic (Article 57b)	19/12/2012		13151.4	Diethyl sulphate	DBTC	64-67-5	
118	Diisopentyl phthalate, See also Index 137 and 139	605-50-5	Toxic for reproduction (Article 57c)	19/12/2012	07/04/2020	8425.18	Diisopentyl phthalate	DiIPP, Di-(4-Methyl-1-butyl) phthalate	605-50-5	Phthalates and Plasticizers RM Catalogue
						12329.18	Diisopentyl phthalate-3,4,5,6-d4	DiIPP-d4	13465597-80-5	
117	Dimethyl sulphate	77-78-1	Carcinogenic (Article 57a)	19/12/2012		13152.2	Dimethyl sulphate		77-78-1	
116	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	Toxic for reproduction (Article 57c)	19/12/2012		2144.10	2-sec-Butyl-4,6-dinitrophenol	Dinoseb	88-85-7	Pesticide RM Cat. & Phenol and Phenoethoxylate RM Cat.
115	Dioxobis(stearato)trilead	12578-12-0	Toxic for reproduction (Article 57c)	19/12/2012			Please enquire			
114	Fatty acids, C16-18, lead salts	91031-62-8	Toxic for reproduction (Article 57c)	19/12/2012			Please enquire			
113	Furan	110-00-9	Carcinogenic (Article 57a)	19/12/2012		3877.4	Furan		110-00-9	
112	Henicosafuoroundecanoic acid	2058-94-8	vPvB (Article 57e)	19/12/2012		2874.11	Perfluoroundecanoic acid	PFUndA	2058-94-8	BMF 98: PFAS
111	Heptacosafuorotetradecanoic acid	376-06-7	vPvB (Article 57e)	19/12/2012		2827.14	Perfluorotetradecanoic acid	PFTedA	376-06-7	

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
110	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0	Respiratory sensitising properties (Article 57(f) - human health)	19/12/2012		13203.9	Hexahydromethylphthalic anhydride, mixture of isomers		25550-51-0	
		19438-60-9				13204.9	Hexahydro-4-methylphthalic anhydride, mixture of isomers		19438-60-9	
		48122-14-1				13205.9	Hexahydro-3a-methylphthalic anhydride, mixture of isomers		48122-14-1	
		57110-29-9				13206.9	Hexahydro-3-methylphthalic anhydride, mixture of isomers		57110-29-9	
109	Lead bis(tetrafluoroborate)	13814-96-5	Toxic for reproduction (Article 57c)	19/12/2012						
108	Lead cyanamide	20837-86-9	Toxic for reproduction (Article 57c)	19/12/2012						
107	Lead dinitrate	10099-74-8	Toxic for reproduction (Article 57c)	19/12/2012						
106	Lead monoxide (lead oxide)	1317-36-8	Toxic for reproduction (Article 57c)	19/12/2012						
105	Lead oxide sulfate	12036-76-9	Toxic for reproduction (Article 57c)	19/12/2012						
104	Lead titanium trioxide	12060-00-3	Toxic for reproduction (Article 57c)	19/12/2012						
103	Lead titanium zirconium oxide	12626-81-2	Toxic for reproduction (Article 57c)	19/12/2012						
102	Methoxyacetic acid	625-45-6	Toxic for reproduction (Article 57c)	19/12/2012						
101	Methyloxirane (Propylene oxide)	75-56-9	Carcinogenic (Article 57a) Mutagenic (Article 57b)	19/12/2012						
100	N,N-Dimethylformamide	68-12-2	Toxic for reproduction (Article 57c)	19/12/2012						
99	N-Methylacetamide	79-16-3	Toxic for reproduction (Article 57c)	19/12/2012						
98	N-Pentyl-isopentylphthalate	776297-69-9	Toxic for reproduction (Article 57c)	19/12/2012	07/04/2020	8539.18	n-Pentylisopentyl phthalate	PIPP, n-Pentyl-3-methyl-1-butyl phthalate	776297-69-9	
97	o-Aminoazotoluene	97-56-3	Carcinogenic (Article 57a)	19/12/2012		10153.14	o-Aminoazotoluene	o-Toluene-azo-o-toluidine	97-56-3	
96	o-Toluidine	95-53-4	Carcinogenic (Article 57a)	19/12/2012		2759.7	o-Toluidine		95-53-4	
95	Orange lead (lead tetroxide)	1314-41-6	Toxic for reproduction (Article 57c)	19/12/2012		13153.0	Lead (II,IV) oxide		1314-41-6	
94	Pentacosafuorotridecanoic acid	72629-94-8	vPvB (Article 57e)	19/12/2012		11367.13	Perfluorotridecanoic acid	PFTrdA	72629-94-8	BMF 98: PFAS
93	Pentalead tetraoxide sulphate	12065-90-6	Toxic for reproduction (Article 57c)	19/12/2012						
92	Pyrochlore, antimony lead yellow	8012-00-8	Toxic for reproduction (Article 57c)	19/12/2012						
91	Silicic acid, barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD), the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	Toxic for reproduction (Article 57c)	19/12/2012						
90	Silicic acid, lead salt	11120-22-2	Toxic for reproduction (Article 57c)	19/12/2012						
89	Sulfurous acid, lead salt, dibasic	62229-08-7	Toxic for reproduction (Article 57c)	19/12/2012						
88	Tetraethyllead	78-00-2	Toxic for reproduction (Article 57c)	19/12/2012		2201.8	Tetraethyllead		78-00-2	
87	Tetralead trioxide sulphate	12202-17-4	Toxic for reproduction (Article 57c)	19/12/2012						
86	Tricosafuorododecanoic acid	307-55-1	vPvB (Article 57e)	19/12/2012		2826.12	n-Perfluorododecanoic acid	PFDodA	307-55-1	BMF 98: PFAS
85	Trilead bis(carbonate) dihydroxide	1319-46-6	Toxic for reproduction (Article 57c)	19/12/2012						
84	Trilead dioxide phosphonate	12141-20-7	Toxic for reproduction (Article 57c)	19/12/2012						
83	1,2-Bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	Toxic for reproduction (Article 57c)	18/06/2012		10538.8	Triethylene glycol dimethyl ether	TEGDME	112-49-2	
82	1,2-Dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	Toxic for reproduction (Article 57c)	18/06/2012		2046.4	1,2-Dimethoxyethane	EGDME	110-71-4	
81	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	Mutagenic (Article 57b)	18/06/2012		10541.12	1,3,5-Triglycidyl isocyanurate	TGIC	2451-62-9	
80	1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	Mutagenic (Article 57b)	18/06/2012		13154.12	beta-Triglycidyl isocyanate		59653-74-6	
79	4,4'-Bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	Carcinogenic (Article 57a)	18/06/2012		13156.24	α,α-Bis[4-(dimethylamino)phenyl]-4-(methylamino)benzenemethanol, Please enquire		561-41-1	
78	4,4'-Bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	Carcinogenic (Article 57a)	18/06/2012		10539.17	Michler's ketone		90-94-8	
77	[4-[4,4'-Bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	Carcinogenic (Article 57a)	18/06/2012		13157.25	Crystal Violet hydrate	Basic Violet 3 Hydrate	548-62-9	
76	[4-[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	Carcinogenic (Article 57a)	18/06/2012		13158.33	Basic Blue 26		2580-56-5	

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
75	Diboron trioxide	1303-86-2	Toxic for reproduction (Article 57c)	18/06/2012		13159.0	Boric anhydride		1303-86-2	
74	Formamide	75-12-7	Toxic for reproduction (Article 57c)	18/06/2012		13160.1	Formamide		75-12-7	
73	Lead(II) bis(methanesulfonate)	17570-76-2	Toxic for reproduction (Article 57c)	18/06/2012		13161.1	Lead methanesulfonate		17570-76-2	
72	N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	Carcinogenic (Article 57a)	18/06/2012		10540.17	Michler's base		101-61-1	
71	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	Carcinogenic (Article 57a)	18/06/2012		10476.33	Solvent Blue 4	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)-1-naphthalenemethanol	6786-83-0	
70	1,2-Dichloroethane	107-06-2	Carcinogenic (Article 57a)	19/12/2011	11/22/2017	1355.2	1,2-Dichloroethane		107-06-2	
69	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Carcinogenic (Article 57a)	19/12/2011	11/22/2017	2791.13	4,4'-Methylenebis(2-chloroaniline)	MOCA	101-14-4	
68	2-Methoxyaniline, o-Anisidine	90-04-0	Carcinogenic (Article 57a)	19/12/2011		10152.7	o-Anisidine	2-Methoxyaniline	90-04-0	
67	4-(1,1,3,3-Tetramethylbutyl)phenol	140-66-9	Endocrine disrupting properties (Article 57(f) - environment)	19/12/2011	01/04/2021	1446.14	4-tert-Octylphenol	4-tert-Octylphenol	140-66-9	Phenol and Phenolethoxylates RM Catalogue
66	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		Carcinogenic (Article 57a)	19/12/2011						
65	Arsenic acid	7778-39-4	Carcinogenic (Article 57a)	19/12/2011	08/22/2017		Arsenic acid solution, Please enquire			
64	Bis(2-methoxyethyl) ether	111-96-6	Toxic for reproduction (Article 57c)	19/12/2011	08/22/2017	10416.6	Diglyme	Bis(2-methoxyethyl)ether	111-96-6	
63	Bis(2-methoxyethyl) phthalate	117-82-8	Toxic for reproduction (Article 57c)	19/12/2011	07/04/2020	2097.14	Bis(2-methoxyethyl) phthalate	Di(2-methoxyethyl) phthalate	117-82-8	Phthalate and Plasticizer RM Catalogue
62	Calcium arsenate	7778-44-1	Carcinogenic (Article 57a)	19/12/2011						
61	Dichromium tris(chromate)	24613-89-6	Carcinogenic (Article 57a)	19/12/2011	01/22/2019					
60	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	Carcinogenic (Article 57a)	19/12/2011	08/22/2017					
59	Lead diazide, Lead azide	13424-46-9	Toxic for reproduction (Article 57c)	19/12/2011						
58	Lead dipicrate	6477-64-1	Toxic for reproduction (Article 57c)	19/12/2011						
57	Lead styphnate	15245-44-0	Toxic for reproduction (Article 57c)	19/12/2011						
56	N,N-Dimethylacetamide	127-19-5	Toxic for reproduction (Article 57c)	19/12/2011						
55	Pentazinc chromate octahydroxide	49663-84-5	Carcinogenic (Article 57a)	19/12/2011	01/22/2019					
54	Phenolphthalein	77-09-8	Carcinogenic (Article 57a)	19/12/2011		13207.20	Phenolphthalein		77-09-8	
53	Potassium hydroxyoctaoxidizincatedichromate	11103-86-9	Carcinogenic (Article 57a)	19/12/2011	01/22/2019					
52	Trilead diarsenate	3687-31-8	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	19/12/2011						
51	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight		Carcinogenic (Article 57a)	19/12/2011						
50	Cobalt dichloride	7646-79-9	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	2011/06/20 - 2008/10/28						
49	1,2,3-Trichloropropane	96-18-4	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	20/06/2011		3936.3	1,2,3-Trichloropropane		96-18-4	

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	Toxic for reproduction (Article 57c)	20/06/2011	07/04/2020					Phthalate and Plasticizer Reference Materials Catalogue
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	Toxic for reproduction (Article 57c)	20/06/2011	07/04/2020					
46	1-Methyl-2-pyrrolidone (NMP)	872-50-4	Toxic for reproduction (Article 57c)	20/06/2011		13209.5	1-Methyl-2-pyrrolidone	NMP	872-50-4	
45	2-Ethoxyethyl acetate	111-15-9	Toxic for reproduction (Article 57c)	20/06/2011		2553.6	2-Ethoxyethyl acetate		111-15-9	
44	Hydrazine	302-01-2, 7803-57-8	Carcinogenic (Article 57a)	20/06/2011						
43	Strontium chromate	7789-06-2	Carcinogenic (Article 57a)	20/06/2011	01/22/2019					
42	2-Ethoxyethanol	110-80-5	Toxic for reproduction (Article 57c)	15/12/2010		2555.4	2-Ethoxyethanol		110-80-5	
41	2-Methoxyethanol	109-86-4	Toxic for reproduction (Article 57c)	15/12/2010		12019.3	2-Methoxyethanol	EGME; ethylene glycol methyl ether; monoethylether	109-86-4	
40	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.	7738-94-5 13530-68-2	Carcinogenic (Article 57a)	15/12/2010	09/21/2017					
39	Chromium trioxide	1333-82-0	Carcinogenic (Article 57a) Mutagenic (Article 57b)	15/12/2010	09/21/2017					
38	Cobalt(II) carbonate	513-79-1	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	15/12/2010						
37	Cobalt(II) diacetate	71-48-7	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	15/12/2010						
36	Cobalt(II) dinitrate	10141-05-6	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	15/12/2010						
35	Cobalt(II) sulphate	10124-43-3	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	15/12/2010						
34	Ammonium dichromate	7789-09-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c)	18/06/2010	09/21/2017					
33	Boric acid	10043-35-3 11113-50-1	Toxic for reproduction (Article 57c)	18/06/2010						
32	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	Toxic for reproduction (Article 57c)	18/06/2010		13248.0	Disodium tetraborate, decahydrate Disodium tetraborate, anhydrous Disodium tetraborate, pentahydrate	Borax Borax Borax	1303-96-4 1330-43-4 12179-04-3	
31	Potassium chromate	7789-00-6	Carcinogenic (Article 57a) Mutagenic (Article 57b)	18/06/2010	09/21/2017					
30	Potassium dichromate	7778-50-9	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c)	18/06/2010	09/21/2017					
29	Sodium chromate	7775-11-3	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c)	18/06/2010	09/21/2017					
28	Tetraboron disodium heptaoxide, hydrate	12267-73-1	Toxic for reproduction (Article 57c)	18/06/2010						
27	Trichloroethylene	79-01-6	Carcinogenic (Article 57a)	18/06/2010	04/21/2016	1354.2	Trichloroethylene		79-01-6	
26	Acrylamide	79-06-1	Carcinogenic (Article 57a) Mutagenic (Article 57b)	30/03/2010		3875.3	Acrylamide		79-06-1	
25	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	Carcinogenic (Article 57a)	13/01/2010	08/21/2015	9541.7	2,4-Dinitrotoluene	2,4-DNT	121-14-2	
24	Anthracene oil	90640-80-5	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	13/01/2010	10/04/2020					BMF 40: Priority PAHs
23	Anthracene oil, anthracene paste	90640-81-6	Carcinogenic (Article 57a) Mutagenic (Article 57b) PBT (Article 57d) vPvB (Article 57e)	13/01/2010						
22	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	Carcinogenic (Article 57a) Mutagenic (Article 57b) PBT (Article 57d) vPvB (Article 57e)	13/01/2010						
21	Anthracene oil, anthracene paste, distn. lights	91995-17-4	Carcinogenic (Article 57a) Mutagenic (Article 57b) PBT (Article 57d) vPvB (Article 57e)	13/01/2010						
20	Anthracene oil, anthracene-low	90640-82-7	Carcinogenic (Article 57a) Mutagenic (Article 57b) PBT (Article 57d) vPvB (Article 57e)	13/01/2010						
19	Diisobutyl phthalate (DIBP)	84-69-5	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	13/01/2010	02/21/2015	2102.16	Diisobutyl phthalate (Bis(2-methyl-1-propyl) phthalate)	DIBP	84-69-5	

SVHC (Substances of very high concern): ECHA-REACH directive: Updated January 2022

Current SVHC list Jan 17th 2022:						Chiron reference materials:				
Index	Chemical name	CAS No.	Reason for inclusion	Inclu. date	Sunset	Chiron No.	Chemical name	Abbreviation, Synonym	CAS No.	Chiron Literature
18	Lead chromate	7758-97-6	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	13/01/2010	05/21/2015					
17	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	13/01/2010	05/21/2015					
16	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	13/01/2010	05/21/2015					
15	Pitch, coal tar, high temp.	65996-93-2	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	13/01/2010	10/04/2020					BMF 40: Priority PAHs
14	Tris(2-chloroethyl) phosphate	115-96-8	Toxic for reproduction (Article 57c)	13/01/2010	08/21/2015	8436.6	Tris(2-chloroethyl) phosphate	TCEP	115-96-8	Flame Retardant RM Cat.
13	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	Carcinogenic (Article 57a)	28/10/2008	08/21/2014	2082.13	4,4'-Methylenedianiline		101-77-9	
12	5-tert-Butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	vPvB (Article 57e)	28/10/2008	08/21/2014	3791.12	Musk xylene	Musk xylol	81-15-2	
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	PBT (Article 57d) vPvB (Article 57e)	28/10/2008			Range of individual analytes with carbon chain C10-C13 and chlorine content of 33-68 % by weight.			BMF 10: PCAs, SCCPs www.chloffin.eu
10	Anthracene	120-12-7	PBT (Article 57d)	28/10/2008		1049.14 1524.12 12589.14	Anthracene Anthracene-d10 Anthracene-13C6 (Ring A-13C6)		120-12-7 15067-26-2 189811-60-7	BMF: 40 Priority PAHs
9	Benzyl butyl phthalate (BBP)	85-68-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	28/10/2008	02/21/2015	1227.19	Benzyl-n-butyl phthalate	BBP, n-Butylbenzyl phthalate	85-68-7	Phthalate and Plasticizer RM Catalogue
8	Bis(tributyltin) oxide (TBTO)	56-35-9	PBT (Article 57d)	28/10/2008		10584.24	Bis(tri-n-butyltin) oxide		56-35-9	BMF 9: Tinorganics
7	Diarsenic pentaoxide	1303-28-2	Carcinogenic (Article 57a)	28/10/2008	05/21/2015					
6	Diarsenic trioxide	1327-53-3	Carcinogenic (Article 57a)	28/10/2008	05/21/2015					
5	Dibutyl phthalate (DBP)	84-74-2	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	28/10/2008	02/21/2015	1226.16	Di-n-butyl phthalate	DBP	84-74-2	Phthalate and Plasticizer RM Catalogue
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	3194-55-6 25637-99-4 134237-51-7 134237-52-8 134237-50-6	PBT (Article 57d)	28/10/2008	08/21/2015	1893.12 10018.12 11149.12 11150.12 25637-99-4	1,2,5,6,9,10-Hexabromocyclododecane, isomer mixture α-Hexabromocyclododecane β-Hexabromocyclododecane γ-Hexabromocyclododecane The compound may be misinterpreted is likely CAS 3194-55-6	HBCDD, Isomer mixture α-HBCDD β-HBCDD γ-HBCDD	3194-55-6 134237-50-6 134237-51-7 134237-52-8	Flame Retardant Reference Materials Catalogue
3	Lead hydrogen arsenate	7784-40-9	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	28/10/2008		13108.0	Lead arsenate		7784-40-9	
2	Sodium dichromate	7789-12-0	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c)	28/10/2008	09/21/2017					
1	Triethyl arsenate	15606-95-8	Carcinogenic (Article 57a)	28/10/2008						








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BMF 87 | v4 | 02/22