

Statement on REACH Articles Provisions from Texas Instruments, Semiconductor Products

This document outlines Texas Instruments (TI)'s current understanding of obligations for communication of substances of very high concern in articles and disclosure of TI's actions to appropriately address such requirements.

REACH compliance status for TI products is reported on ti.com. On ti.com TI defines REACH compliance status for TI products as:

<u>Yes</u>: Fully compliant to EU REACH. There are no SVHC's above 1000ppm and no Annex XVII substances above their allowed threshold in products manufactured by TI.

<u>Affected</u>: Only used when a REACH SVHC is contained above 0.1% REACH Article threshold. Any REACH SVHC above the threshold is not restricted from use but if contained above threshold, further information must be available.

 $\underline{\text{No}}$: Not compliant to EU REACH – a restricted substance(s) under REACH Annex XVII is contained outside of allowed application.

With regard to the Substances of Very High Concern (SVHC) candidate list published on the European Chemicals Agency (ECHA) website, based on information from our suppliers and internal chemical screening processes <u>TI Semiconductor products do not contain any of the SVHC candidates listed herein above the regulatory threshold of 0.1%, unless otherwise specified:</u>

- All TI RoHS exempt products claiming a RoHS exemption other than 7(c)-I contain the SVHC lead (Pb) at greater than 0.1%. IC products do not contain any other SVHC substances at a concentration above 0.1%
- Pb above 0.1% in RoHS Exempt products claiming only Exemption 7(c)-I ("Lead in Glass") is not required to be declared as a REACH SVHC substance.
- Any other SVHC substances present in module products are declared in the detailed material content report found on ti.com.

TI is continually engaging with its suppliers to obtain additional information and assurances. As the ECHA SVHC list is updated, TI will provide information to its customers in a timely manner concerning their use or non-use within finished semiconductor products through TI's product content data base (www.ti.com/eco-info).

European Union (EU) regulation under Waste Framework Directive (WFD) for circular economy entered into force in July 2018. It gave ECHA the task to develop a database with information on articles containing Substances of Very High Concern (SVHCs) per the REACH candidate list. Subsequently, with the release of SCIP [**S**ubstances of **C**oncern **I**n articles as such or in complex objects (**P**roducts)] database on October 28, 2020, companies supplying articles containing any SVHC in a concentration above 0.1% weight by weight (w/w) on the EU market were required to submit information on these articles to the European Chemical Agency (ECHA) by January 5, 2021.

TI has supported this requirement and has uploaded dossiers for the affected products to the SCIP database well before the Jan 5 deadline date, and has received confirmation of successful submissions with associated SCIP reference numbers. SCIP reference numbers for TI products are available upon request.

In some of TI's Bill of Materials descriptions Boron trioxide (B_2O_3) (CAS #1303-86-2) will be used as a component of glass. The use of B_2O_3 is as a chemical intermediate to make glass and is therefore not an SVHC. There are no known uses of REACH SVHCs contained in packing materials used for shipping TI IC products.

The following list of SVHC candidates was last updated by ECHA on January 21, 2025 and includes 247 substances.

Initial: REACH Candidate List on 28 October 2008				
Substance Category Name	CAS number(s) published by ECHA	EC number	Identification as a Basic SVHC	
Triethyl arsenate	15606-95-8	427-700-2	Carcinogenic, article 57a	
Sodium dichromate, dihydrate	7789-12-0, 10588-01-9	234-190-3	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c	
Lead hydrogen arsenate	7784-40-9	232-064-2	Carcinogenic and toxic for reproduction, article 57a & 57c	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	247-148-4 221-695-9	PBT, article 57d	
Dibutyl phthalate (DBP)	84-74-2	201-557-4	Toxic for reproduction, article 57c	
Diarsenic trioxide	1327-53-3	215-481-4	Carcinogenic, article 57a	
Diarsenic pentoxide	1303-28-2	215-116-9	Carcinogenic, article 57a	
Tributyl tin oxide (TBTO)	56-35-9	200-268-0	PBT, article 57d	
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	Toxic for reproduction, article 57c Also Included on REACH SVHC List 2014/12/17	
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Toxic for reproduction, article 57c	
Anthracene	120-12-7	204-371-1	PBT, article 57d	
Alkanes, Shortchain Chlorinated Paraffins (C10 - C13)	85535-84-8	287-476-5	PBT and vPvB, article 57d & e	
5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	201-329-4	vPvB, article 57e	
4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogenic, article 57a	
Cobalt dichloride (CoCl2)	7646-79-9	231-589-4	Carcinogenic and toxic for reproduction, article 57a & 57c Also Included on REACH SVHC List 2011/06/20	

Update: RE	ACH Candidate	List on 13 Jan	nuary 2010
Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	204-118-5	Toxic for reproduction, article 57c
Coal tar pitch, high temperature	65996-93-2	266-028-2	Carcinogenic, PBT and vPvB, articles a, d & e
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	Carcinogenic, toxic for reproduction, article 57a & 57c
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	Carcinogenic and toxic for reproduction, article 57a & 57c
Lead chromate	7758-97-6	231-846-0	Carcinogenic and toxic for reproduction, article 57a & 57c
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	Toxic for reproduction, article 57c
Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil, anthracene paste	90640-81-6	292-603-2	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil, anthracene-low	90640-82-7	292-604-8	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil	90640-80-5	292-602-7	Carcinogenic, PBT and vPvB, articles a, d & e
2,4-Dinitrotoluene	121-14-2	204-450-0	Carcinogenic, article 57a
Update: R	EACH Candidat	e List on 30 Ma	
Acrylamide	79-06-1	201-173-7	Carcinogenic and mutagenic, article 57a & 57b
Update: I	REACH Candida	te List on 18 Ju	
Sodium chromate	7775-11-3	231-889-5	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c
Potassium chromate	7789-00-6	232-140-5	Carcinogenic, mutagenic, article 57a & 57b
Ammonium dichromate	7789-09-5	232-143-1	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c
Potassium dichromate	7778-50-9	231-906-6	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c
Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	Toxic for reproduction, article 57c
Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	215-540-4	Toxic for reproduction, article 57c
Boric acid	10043-35-3, 11113-50-1	233-139-2, 234-343-4	Toxic for reproduction, article 57c
Trichloroethylene	79-01-6	201-167-4	Carcinogenic, article 57a
Update: REA	ACH Candidate I	List on 15 Dece	ember 2010:
Chromium Trioxide	1333-82-0	215-607-8	Carcinogenic and mutagenic, article 57a & 57b
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	231-801-5, 236-881-5	Carcinogenic, article 57a
2-Ethoxyethanol	110-80-5	203-804-1	Toxic for reproduction, article 57c
2-Methoxyethanol	109-86-4	203-713-7	Toxic for reproduction, article 57c
Cobalt(II) Diacetate	71-48-7	200-755-8	Carcinogenic and toxic for reproduction, article 57a & 57C
Cobalt(II) Carbonate	513-79-1	208-169-4	Carcinogenic and toxic for reproduction, article 57a & 57C
Cobalt(II) Dinitrate	10141-05-6	233-402-1	Carcinogenic and toxic for reproduction, article 57a & 57C
Cobalt(II) Sulphate	10124-43-3	233-334-2	Carcinogenic and toxic for reproduction, article 57a & 57c
	REACH Candidat	te List on 20 Ju	ine 2011:
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	Toxic for reproduction, article 57c
1,2,3-Trichloropropane	96-18-4	202-486-1	Carcinogenic and toxic for reproduction, article 57a & 57C
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	Toxic for reproduction, article 57c

	302-01-2,		
Hydrazine	7803-57-8	206-114-9	Carcinogenic, article 57a
1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	Toxic for reproduction, article 57c
Strontium chromate	7789-06-2	232-142-6	Carcinogenic, article 57a
2-Ethoxyethyl acetate	111-15-9	203-839-2	Toxic for reproduction, article 57c
Update: REA	NCH Candidate L	ist on 19 Dece	ember 2011:
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	Carcinogenic, article 57a
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Toxic for reproduction, article 57c
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Toxic for reproduction, article 57c
Calcium arsenate	7778-44-1	231-904-5	Carcinogenic, article 57 a
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	Carcinogenic, article 57 a
Lead dipicrate	6477-64-1	229-335-2	Toxic for reproduction, article 57c
N,N-dimethylacetamide	127-19-5	204-826-4	Toxic for reproduction, article 57c
Arsenic acid	7778-39-4	231-901-9	Carcinogenic, article 57 a
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic, article 57 a
Trilead diarsenate	3687-31-8	222-979-5	Carcinogenic and toxic for reproduction, article 57a & 57C
1,2-dichloroethane	107-06-2	203-458-1	Carcinogenic, article 57 a
Pentazinc chromate octahydroxide	49663-84-5	256-418-0	Carcinogenic, article 57 a
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	Carcinogenic, article 57 a
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	Equivalent level of concern having probable serious effects to the environment, article 57 f
Lead diazide, Lead azide	13424-46-9	236-542-1	Toxic for reproduction, article 57c
Phenolphthalein	77-09-8	201-004-7	Carcinogenic, article 57 a
Dichromium tris(chromate)	24613-89-6	246-356-2	Carcinogenic, article 57 a
Lead styphnate	15245-44-0	239-290-0	Toxic for reproduction, article 57c
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	No CAS number(s) provided	No EC number(s) provided	Was also on REACH SVHC list published 13/01/2010
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	No CAS number(s) provided	No EC number(s) provided	Carcinogenic, article 57 Was also on REACH SVHC list published 13/01/2010

Update: REACH Candidate List on 18 June 2012:				
Diboron trioxide	1303-86-2	215-125-8	Toxic for reproduction, article 57c	
Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	Toxic for reproduction, article 57c	
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction, article 57c	
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Toxic for reproduction, article 57c	
Formamide	75-12-7	200-842-0	Toxic for reproduction, article 57c	
1,3,5-tris(oxiran-2-ylmethyl)-1,3,5- triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	Mutagenic (Article 57b)	
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine- 2,4,6-(1H,3H,5H)-trione (B-TGIC)	59653-74-6	423-400-0	Mutagenic (Article 57b)	
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic, article 57a	
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic (Article 57a)	
[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	219-943-6	Carcinogenic, article 57a	
a,a-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8	Carcinogenic (Article 57a)	
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa- 2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	208-953-6	Carcinogenic (Article 57a)	
4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202- 959-2)]	561-41-1	209-218-2	Carcinogenic, article 57a	
Update: REA	ACH Candidate	List on 19 Dec	ember 2012	
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	Toxic for reproduction (Article 57 c)	
6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic (Article 57a)	
Henicosafluoroundecanoic acid	2058-94-8	218-165-4	vPvB (Article 57 e)	
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, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	Equivalent level of concern having probable serious effects to human health (Article 57 f)	
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 transisomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	Equivalent level of concern having probable serious effects to human health (Article 57 f)	
Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Toxic for reproduction (Article 57 c)	

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Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	Toxic for reproduction (Article 57 c)
Lead dinitrate	10099-74-8	233-245-9	Toxic for reproduction (Article 57 c)
Silicic acid, lead salt	11120-22-2	234-363-3	Toxic for reproduction (Article 57 c)
4-Aminoazobenzene	60-09-3	200-453-6	Carcinogenic (Article 57a)
Lead titanium zirconium oxide	12626-81-2	235-727-4	Toxic for reproduction (Article 57 c)
Lead monoxide (lead oxide)	1317-36-8	215-267-0	Toxic for reproduction (Article 57 c)
o-Toluidine	95-53-4	202-429-0	Carcinogenic (Article 57a)
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-	143860-04-2	421-150-7	Toxic for reproduction (Article 57c)
oxazolidine	143000 04 2	721 130 7	Toxic for reproduction (Article 37c)
Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	272-271-5	Toxic for reproduction (Article 57 c)
Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	Toxic for reproduction (Article 57 c)
Furan	110-00-9	203-727-3	Carcinogenic (Article 57a)
N,N-dimethylformamide	68-12-2	200-679-5	Toxic for reproduction (Article 57 c)
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	1	-	Equivalent level of concern having probable serious effects to human health (Article 57 f)
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]	-	-	Equivalent level of concern having probable serious effects to human health (Article 57 f)
4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	Carcinogenic (Article 57a)
Diethyl sulphate	64-67-5	200-589-6	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic (Article 57a)
Lead oxide sulfate	12036-76-9	234-853-7	Toxic for reproduction (Article 57 c)
Lead titanium trioxide	12060-00-3	235-038-9	Toxic for reproduction (Article 57 c)
Acetic acid, lead salt, basic	51404-69-4	257-175-3	Toxic for reproduction (Article 57 c)
[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	Toxic for reproduction (Article 57 c)
Bis(pentabromophenyl)ether decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	PBT (Article 57 d); vPvB (Article 57 e)
N-methylacetamide	79-16-3	201-182-6	Toxic for reproduction (Article 57c)
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	Toxic for reproduction (Article 57c)
1,2-Diethoxyethane	629-14-1	211-076-1	Toxic for reproduction (Article 57 c)
Tetralead trioxide sulphate	12202-17-4	235-380-9	Toxic for reproduction (Article 57c)
N-pentyl-isopentylphthalate	776297-69-9	-	Toxic for reproduction (Article 57 c)
Dioxobis(stearato)trilead	12578-12-0	235-702-8	Toxic for reproduction (Article 57 c)
Tetraethyllead	78-00-2	201-075-4	Toxic for reproduction (Article 57c)
Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Toxic for reproduction (Article 57 c)
Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	vPvB (Article 57 e)
Tricosafluorododecanoic acid	307-55-1	206-203-2	vPvB (Article 57 e)
Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	vPvB (Article 57 e)
1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Toxic for reproduction (Article 57 c)
Methoxyacetic acid	625-45-6	210-894-6	Toxic for reproduction (Article 57 c)
,	023 43-0	210 034-0	Toxic for reproduction (Article 37 c)
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	Carcinogenic (Article 57a)
Methyloxirane (Propylene oxide)	75-56-9	200-879-2	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Trilead dioxide phosphonate	12141-20-7	235-252-2	Toxic for reproduction (Article 57c)
o-aminoazotoluene	97-56-3	202-591-2	Carcinogenic (Article 57a)
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	Toxic for reproduction (Article 57 c)
4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic (Article 57a); Mutagenic (Article 57b)

Orange lead (lead tetroxide)	1314-41-6	215-235-6	Toxic for reproduction (Article 57 c)
Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic (Article 57a)
Diisopentylphthalate (DIPP)	605-50-5	210-088-4	Toxic for reproduction (Article 57 c)
Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	Toxic for reproduction (Article 57 c)
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	204-650-8	Equivalent level of concern having probable serious effects to human health (Article 57 f)
Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	Toxic for reproduction (Article 57 c)
Lead cyanamidate	20837-86-9	244-073-9	Toxic for reproduction (Article 57 c)
Update: F	REACH Candidat	te List on 20 J	
Cadmium	7440-43-9	231-152-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)
Cadmium oxide	1306-19-0	215-146-2	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	Toxic for reproduction (Article 57c); PBT (Article 57d)
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	Toxic for reproduction (Article 57c); PBT (Article 57d)
Dipentyl phthalate (DPP)	131-18-0	205-017-9	Toxic for reproduction (Article 57c)
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]	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57f)
Update: REA	ACH Candidate	List on 16 Dec	ember 2013
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	Carcinogenic (Article 57a)
Trixylyl phosphate	25155-23-1	246-677-8	Toxic for reproduction (Article 57c)
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	Carcinogenic (Article 57a)
Dihexyl phthalate	84-75-3	201-559-5	Toxic for reproduction (Article 57c)
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9	Toxic for reproduction (Article 57c)
Cadmium sulphide	1306-23-6	215-147-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)
Lead di(acetate)	301-04-2	206-104-4	Toxic for reproduction (Article 57c)
Update: I	REACH Candida	te List on 16 J	lune 2014
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	Toxic for reproduction (Article 57c)
Cadmium chloride	10108-64-2	233-296-7	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	Toxic for reproduction (Article 57c)
Sodium peroxometaborate	7632-04-4	231-556-4	Toxic for reproduction (Article 57c)
•	REACH Candida	I	
Cadmium fluoride	7790-79-6	232-222-0	Carcinogenic (Article 57a): Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57f)

Cadmium sulfate	10124-36-4 31119-53-6	233-331-6	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)		
2-Benzotriazoi-2-yl-4, 6-di-tert-butyphenol (UV-320)	3846-71-7	223-346-6	PBT (Article 57d); vPvB (Article 57e)		
2-(2H-benzotriazol-2-yl)-4, 6- ditertpentylphenol (UV-328)	25973-55-1	247-384-8	PBT (Article 57d); vPvB (Article 57e)		
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8- oxa-3,5-dithia-4-stannatefradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for reproduction (Article 57c)		
reaction mass of 2-ethylhexyl 10-ethyl-4,4-dloctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-ll2[(2ethylhexyl)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)		
Update:	REACH Candida	ate List on 15	Jun 2015		
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with greater than or equal to 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	271-094-0; 272-013-1	Toxic for reproduction (Article 57c)		
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]	No CAS number(s) provided	No EC number(s) provided	vPvB (Article 57e)		
Update:	REACH Candida	ite List on 17	Dec 2015		
1,3-propanesultone	1120-71-4	214-317-9	Carcinogenic (Article 57 a)		
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2- yl)phenol (UV-327)	3864-99-1	223-383-8	vPvB (Article 57 e)		
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	vPvB (Article 57 e)		
Nitrobenzene	98-95-3	202-716-0	Toxic for reproduction (Article 57 c)		
Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	Toxic for reproduction (Article 57 c); PBT (Article 57 d)		
Update: I	REACH Candida	te List on 20 J	lune 2016		
Benzo[def]chrysene	50-32-8	200-028-5	Carcinogenic (Article 57 a), Mutagenic (Article 57b), Toxic for reproduction (Article 57c), PBT (Article 57 d), vPvB (Article 57 e)		
Update: REACH Candidate List on 12 January 2017					
4,4'-isopropylidenediphenol (bisphenol A; BPA)	201-245-8	80-05-7	Toxic for reproduction (Article 57c)		
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2 3830-45-3 3108-42-7	Toxic for reproduction (Article 57c) PBT (Article 57d)		
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	Equivalent level of concern having probable serious effects to environment (Article 57f)		
4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and welldefined substances which include any of the individual isomers or a combination thereof]	-	-	Equivalent level of concern having probable serious effects to environment (Article 57f)		

Update: REACH Candidate List on 7 July 2017				
		vPvB (Article 57e)		
ACH Candidate	List on 15 Ja	nuary 2018		
56-55-3, 1718-53-2	200-280-6	Carcinogenic (Article 57a); PBT (Article 57d) vPvB (Article 57e)		
513-78-0	208-168-9	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57(f) - human health)		
21041-95-2	244-168-5	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57(f) - human health)		
10022-68-1, 10325-94-7	233-710-6	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57(f) - human health)		
218-01-9, 1719-03-5	205-923-4	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)		
		vPvB (Article 57e)		
		Endocrine disrupting properties (Article 57(f) – environment		
REACH Candida	te List on 27	June 2018		
552-30-7	209-008-0	Respiratory sensitising properties (Article 57(f) - human health)		
		PBT (Article 57d); vPvB (Article 57e)		
541-02-6	208-764-9	PBT (Article 57d); vPvB (Article 57e)		
84-61-7	201-545-9	Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) - human health)		
		Toxic for reproduction (Article 57c)		
540-97-6	208-762-8	PBT (Article 57d); vPvB (Article 57e) Respiratory sensitising properties (Article		
107-15-3	203-468-6	57(f) - human health)		
7439-92-1	231-100-4	Toxic for reproduction (Article 57c)		
556-67-2	209-136-7	PBT (Article 57d); vPvB (Article 57e)		
61788-32-7	262-967-7	vPvB (Article 57e)		
Terphenyl, hydrogenated 61788-32-7 262-967-7 vPvB (Article 57e) **Update: REACH Candidate List on 15 January 2019**				
15087-24-8	239-139-9	Endocrine disrupting properties (Article 57(f) - environment)		
6807-17-6	401-720-1	Toxic for reproduction (Article 57c); Carcinogenic (Article 57a)		
207-08-9	205-916-6	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)		
206-44-0; 93951-69-0	205-912-4	PBT (Article 57d); vPvB (Article 57e)		
85-01-8	201-581-5	vPvB (Article 57e)		
129-00-0; 1718-52-1	204-927-3	PBT (Article 57d); vPvB (Article 57e)		
	76. FACH Candidate 56-55-3, 1718-53-2 513-78-0 21041-95-2 10022-68-1, 10325-94-7 218-01-9, 1719-03-5 REACH Candidate 552-30-7 191-24-2 541-02-6 84-61-7 12008-41-2 540-97-6 107-15-3 7439-92-1 556-67-2 61788-32-7 FACH Candidate 15087-24-8 6807-17-6 207-08-9 206-44-0; 93951-69-0 85-01-8	### Candidate List on 15 Jan 1718-53-2		

Madata	DEACU Cdid-		7h. 2010
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)	REACH Candida	LE LIST ON 16.	July 2019
propionic acid, its salts and its acyl halides	-	-	Endocrine disrupting properties (Article 57(f)
covering any of their individual isomers and combinations thereof			- environment)
2-methoxyethyl acetate	110-49-6	203-772-9	Toxic for reproduction (Article 57c)
4-tert-butylphenol	98-54-4	202-679-0	Endocrine disrupting properties (Article 57(f) - environment)
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) - environment)
Update: RE	ACH Candidate	List on 16 Ja	nuary 2020
Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	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)
Diisohexyl phthalate	71850-09-4	276-090-2	Toxic for reproduction (Article 57c)
2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	71868-10-5	400-600-6	Toxic for reproduction (Article 57c)
2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1	404-360-3	Toxic for reproduction (Article 57c)
Update: I	REACH Candida	te List on 26 3	June 2020
1-vinylimidazole	1072-63-5	214-012-0	Toxic for reproduction (Article 57c)
2-methylimidazole	693-98-1	211-765-7	Toxic for reproduction (Article 57c)
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	Toxic for reproduction (Article 57c)
Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	202-318-7	Endocrine disrupting properties - human health (Article 57(f) – human health)
Update: RE	ACH Candidate	List on 19 Ja	nuary 2021
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	Toxic for reproduction (Article 57c)
Dioctyltin 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	-	-	Toxic for reproduction (Article 57c)
Update:	REACH Candida	ate List on 8 J	uly 2021
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
Phenol, dodecyl-, branched	121158-58-5	310-154-3	
Phenol, (tetrapropenyl) derivatives	74499-35-7		
Phenol, 4-dodecyl, branched	210555-94-5	-	
4-isododecylphenol	27459-10-5	-	
Phenol, tetrapropylene-	57427-55-1 27147-75-7	-	
Phenol, 4-isododecyl- Orthoboric acid, sodium salt	2/14/-/5-/	-	Toxic for reproduction (Article 574)
	-	-	Toxic for reproduction (Article 57c)
Boric acid (H3BO3), sodium salt, hydrate	25747-83-5	-	
Boric acid (H3BO3), disodium salt Trisodium orthoborate	22454-04-2 14312-40-4	- 238-253-6	
Boric acid, sodium salt	1333-73-9	215-604-1	
Orthoboric acid, sodium salt	13840-56-7	237-560-2	
Boric acid (H3BO3), sodium salt (1:1)	14890-53-0	-	

Medium-chain chlorinated paraffins (MCCP)			
UVCB substances consisting of more than or equal to			PBT (Article 57d)
80% linear chloroalkanes with carbon chain lengths	_	-	vPvB (Article 57e)
within the range from C14 to C17			
Alkanes, C14-16, chloro	1372804-76-6	-	
Alkanes, C14-17, chloro	85535-85-9	287-477-0	
di-, tri- and tetrachlorotetradecane Tetradecane, chloro derivs.	198840-65-2	950-299-5	
retradecane, chioro derivs.		-	Respiratory sensitising properties (Article 57(f)
Glutaral	111-30-8	203-856-5	- human health) Endocrine disrupting properties (Article 57(f) -
			environment)
4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	Endocrine disrupting properties (Article 57(f) - human health)
2-(4-tert-butylbenzyl)propionaldehyde and its			,
individual stereoisomers	-	-	Toxic for reproduction (Article 57c)
(2R)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-31-3	-	
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	201-289-8	
(2S)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-30-2	-	
2,2-bis(bromomethyl)propane-1,3-diol (BMP);			
2,2-dimethylpropan-1-ol, tribromo derivative/3-	_	_	Carcinogenic (Article 57a)
bromo-2,2-bis(bromomethyl)-1-propanol			Can amagama (randice ara)
(TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)			
2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	36483-57-5	253-057-0	
3-bromo-2,2-bis(bromomethyl)-1-propanol	155-92-5	-	
(TBNPA) 2,2-bis(bromomethyl)propane-1,3-diol (BMP)	3296-90-0	221-967-7	
2,3-dibromo-1-propanol (2,3-DBPA)			
2,5 dibromo i propunor (2,5 bbi A)	96-13-9	202-480-9	
1,4-dioxane	123-91-1	204-661-8	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)
Update: R	EACH Candidate	e List on 17 Ja	nnuary 2022
tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	Toxic for reproduction (Article 57c)
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	401-850-9	PBT (Article 57d)
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	Toxic for reproduction (Article 57c)
(±)-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)	-	-	Endocrine disrupting properties (Article 57(f) - human health)
(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	1782069-81-1	-	
(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	95342-41-9	-	
(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	852541-25-4	-	
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo[2.2.1]heptan-2-one	36861-47-9	253-242-6	
(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	852541-30-1	-	
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	852541-21-0	-	
	REACH Candida	nte List on 10	June 2022
N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	Carcinogenic (Article 57a); Mutagenic (Article 57b)
			game (masses and)
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Update: Ri	EACH Candidate	e List on 17 Ja	anuary 2023	
1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-			Very persistent and very bioaccumulative	
tribromobenzene]	37853-59-1	253-692-3	(REACH Article 57 e)	
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	Carcinogenic (Article 57 a)	
4,4'-sulphonyldiphenol	80-09-1	201-250-5	Toxic for reproduction (Article 57 c); Endocrine disrupting properties (Article 57 f – environment); Endocrine disrupting properties (Article 57 f – human health)	
Barium diboron tetraoxide	13701-59-2	237-222-4	Toxic for reproduction (Article 57 c)	
Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	Very persistent and very bioaccumulative (Article 57 e)	
Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	Endocrine disrupting properties (Article 57 f – human health)	
Melamine	108-78-1	203-615-4	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)	
Perfluoroheptanoic acid and its salts	-		Toxic for reproduction (Article 57 c); Persistent, bioaccumulative and toxic (Article 57 d); Very persistent and very bioaccumulative (Article 57 e); 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)	
reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4- (1,1,1,2,3,3,3-heptafluoropropan-2- yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholine	-	473-390-7	Very persistent and very bioaccumulative (Article 57 e)	
Update:	REACH Candida	te List on 14	June 2023	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	Toxic for reproduction (Article 57c)	
Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	vPvB (Article 57 e)	
Update: Ri	EACH Candidate	e List on 23 Ja	anuary 2024	
2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	Toxic for reproduction (Article 57c); PBT (Article 57d)	
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3- tetramethylbutyl)phenol	3147-75-9	221-573-5	vPvB (Article 57 e)	
2-(dimethylamino)-2-[(4-methylphenyl)methyl]- 1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	Toxic for reproduction (Article 57 c)	
Bumetrizole	3896-11-5	223-445-4	vPvB (Article 57 e)	
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	700-960-7	vPvB (Article 57 e)	
Update: REACH Candidate List on 27 June 2024				
Bis(a,a-dimethylbenzyl) peroxide	80-43-3	201-279-3	Toxic for reproduction (Article 57c)	
Update: RE	ACH Candidate	List on 7 Nov	· · · · · · · · · · · · · · · · · · ·	
Triphenyl Phosphate	115-86-6	204-112-2	Endocrine disrupting properties (Article 57 f – environment)	
Update: Ri	EACH Candidate	e List on 21 Ja	anuary 2025	
6-[(C10-C13)-alkyl-(branched, unsaturated)- 2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	701-118-1	Toxic for reproduction (Article 57c)	

O,O,O-triphenyl phosphorothioate	597-82-0	209-909-9	Persistent, bioaccumulative and toxic, PBT (Article 57d)
Octamethyltrisiloxane	107-51-7	203-497-4	Very persistent, very bioaccumulative, vPvB (Article 57e)
Perfluamine	338-83-0	206-420-2	Very persistent, very bioaccumulative, vPvB (Article 57e)
Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	421-820-9	Persistent, bioaccumulative and toxic, PBT (Article 57d)

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Date: March 03, 2025

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