



Accuris has added the following environmental document to the active parts as mentioned in the document from Texas Instruments Inc as of 15-June-2022.

Thank You.



## 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:

Yes: 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.

Affected: 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.

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 TI Semiconductor products do not contain any of the SVHC candidates listed herein above the regulatory threshold of 0.1%, unless otherwise specified:

- 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](http://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<sub>2</sub>O<sub>3</sub>) (CAS #1303-86-2) will be used as a component of glass. The use of B<sub>2</sub>O<sub>3</sub> 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 June 10, 2022 and includes 224 substances.

<b>Initial: REACH Candidate List on 28 October 2008</b>			
<b>Substance Category Name</b>	<b>CAS number(s) published by ECHA</b>	<b>EC number</b>	<b>Identification as a Basic SVHC</b>
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 <i>Also Included on REACH SVHC List 2014/12/17</i>
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 (CoCl <sub>2</sub> )	7646-79-9	231-589-4	Carcinogenic and toxic for reproduction, article 57a & 57c <i>Also Included on REACH SVHC List 2011/06/20</i>

<b>Update: REACH Candidate List on 13 January 2010</b>			
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
<b>Update: REACH Candidate List on 30 March 2010</b>			
Acrylamide	79-06-1	201-173-7	Carcinogenic and mutagenic, article 57a & 57b
<b>Update: REACH Candidate List on 18 June 2010</b>			
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
<b>Update: REACH Candidate List on 15 December 2010:</b>			
Chromium Trioxide	1333-82-0	215-607-8	Carcinogenic and mutagenic, article 57a & 57b
Acids generated from chromium trioxide and their oligomers. <i>Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.</i>	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
<b>Update: REACH Candidate List on 20 June 2011:</b>			
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

Hydrazine	302-01-2, 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
<b>Update: REACH Candidate List on 19 December 2011:</b>			
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 hydroxyoctaoxidizincatedichromate	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
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 (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight	No CAS number(s) provided	No EC number(s) provided	Carcinogenic, article 57 a 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 (Na <sub>2</sub> O+K <sub>2</sub> O+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

<b>Update: REACH Candidate List on 18 June 2012:</b>			
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
<b>Update: REACH Candidate List on 19 December 2012</b>			
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)
Henicosafuoroundecanoic 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)



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-oxazolidine	143860-04-2	421-150-7	Toxic for reproduction (Article 57c)
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), 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]	-	-	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)
Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	vPvB (Article 57 e)
Tricosafuorododecanoic acid	307-55-1	206-203-2	vPvB (Article 57 e)
Heptacosafuorotetradecanoic 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)
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)
<b>Update: REACH Candidate List on 20 June 2013:</b>			
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)
<b>Update: REACH Candidate List on 16 December 2013</b>			
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)
<b>Update: REACH Candidate List on 16 June 2014</b>			
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)
<b>Update: REACH Candidate List on 17 Dec 2014</b>			
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-Benzotriazol-2-yl-4, 6-di-tert-butylphenol (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-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for reproduction (Article 57c)
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-Il2[(2ethylhexyl)oxy]-2- oxoethylthio}-4-octyl-7-oxo-8-oxa-3,5- dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	Toxic for reproduction (Article 57c)
<b>Update: REACH Candidate List on 15 Jun 2015</b>			
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)
<b>Update: REACH Candidate List on 17 Dec 2015</b>			
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)
<b>Update: REACH Candidate List on 20 June 2016</b>			
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)
<b>Update: REACH Candidate List on 12 January 2017</b>			
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 well- defined substances which include any of the individual isomers or a combination thereof]	-	-	Equivalent level of concern having probable serious effects to environment (Article 57f)

<b>Update: REACH Candidate List on 7 July 2017</b>			
Perfluorohexane-1-sulphonic acid and its salts PFHxS	--	--	vPvB (Article 57e)
<b>Update: REACH Candidate List on 15 January 2018</b>			
Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	Carcinogenic (Article 57a); PBT (Article 57d) vPvB (Article 57e)
Cadmium carbonate	513-78-0	208-168-9	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
Cadmium hydroxide	21041-95-2	244-168-5	Carcinogenic (Article 57a); Mutagenic (Article 57b); Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
Cadmium nitrate	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)
Chrysene	218-01-9, 1719-03-5	205-923-4	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
Dodecachloropentacyclo[12.2.1.16,9.02,13.0 5,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> )	----	----	vPvB (Article 57e)
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)
<b>Update: REACH Candidate List on 27 June 2018</b>			
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	209-008-0	Respiratory sensitising properties (Article 57(f) - human health)
Benzo[ghi]perylene	191-24-2	205-883-8	PBT (Article 57d); vPvB (Article 57e)
Decamethylcyclopentasiloxane	541-02-6	208-764-9	PBT (Article 57d); vPvB (Article 57e)
Dicyclohexyl phthalate	84-61-7	201-545-9	Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) - human health)
Disodium octaborate	12008-41-2	234-541-0	Toxic for reproduction (Article 57c)
Dodecamethylcyclohexasiloxane	540-97-6	208-762-8	PBT (Article 57d); vPvB (Article 57e)
Ethylenediamine	107-15-3	203-468-6	Respiratory sensitising properties (Article 57(f) - human health)
Lead	7439-92-1	231-100-4	Toxic for reproduction (Article 57c)
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	PBT (Article 57d); vPvB (Article 57e)
Terphenyl, hydrogenated	61788-32-7	262-967-7	vPvB (Article 57e)
<b>Update: REACH Candidate List on 15 January 2019</b>			
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	Endocrine disrupting properties (Article 57(f) - environment)
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	Toxic for reproduction (Article 57c); Carcinogenic (Article 57a)
Benzo[k]fluoranthene	207-08-9	205-916-6	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
Fluoranthene	206-44-0; 93951-69-0	205-912-4	PBT (Article 57d); vPvB (Article 57e)
Phenanthrene	85-01-8	201-581-5	vPvB (Article 57e)
Pyrene	129-00-0; 1718-52-1	204-927-3	PBT (Article 57d); vPvB (Article 57e)
*Note: Products identified at <a href="http://www.ti.com/eoinfo">www.ti.com/eoinfo</a> as RoHS exempt or RoHS Out-of-Scope, contain Lead, CAS #7439-92-1 at >0.1% or 1000ppm.			

<b>Update: REACH Candidate List on 16 July 2019</b>			
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	-	Endocrine disrupting properties (Article 57(f) - 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 $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	Endocrine disrupting properties (Article 57(f) - environment)
<b>Update: REACH Candidate List on 16 January 2020</b>			
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)
<b>Update: REACH Candidate List on 26 June 2020</b>			
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)
<b>Update: REACH Candidate List on 19 January 2021</b>			
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	Toxic for reproduction (Article 57c)
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	-	-	Toxic for reproduction (Article 57c)
<b>Update: REACH Candidate List on 8 July 2021</b>			
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	-	
Phenol, 4-isododecyl-	27147-75-7	-	
Orthoboric acid, sodium salt	-	-	Toxic for reproduction (Article 57c)
Boric acid (H3BO3), sodium salt, hydrate	25747-83-5	-	
Boric acid (H3BO3), disodium salt	22454-04-2	-	
Trisodium orthoborate	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 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17	-	-	PBT (Article 57d) vPvB (Article 57e)

Alkanes, C14-16, chloro	1372804-76-6	-	
Alkanes, C14-17, chloro	85535-85-9	287-477-0	
di-, tri- and tetrachlorotetradecane	-	950-299-5	
Tetradecane, chloro derivs.	198840-65-2	-	
Glutaral	111-30-8	203-856-5	Respiratory sensitising properties (Article 57(f) - human health)
4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	Endocrine disrupting properties (Article 57(f) - environment) 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-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	-	Carcinogenic (Article 57a)
2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	36483-57-5	253-057-0	
3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	155-92-5	-	
2,2-bis(bromomethyl)propane-1,3-diol (BMP)	3296-90-0	221-967-7	
2,3-dibromo-1-propanol (2,3-DBPA)	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)
<b>Update: REACH Candidate List on 17 January 2022</b>			
tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	Toxic for reproduction (Article 57c)
S-(tricyclo(5.2.1.0 <sup>2</sup> .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	-	
<b>Update: REACH Candidate List on 15 June 2022</b>			
N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	Carcinogenic (Article 57a); Mutagenic (Article 57b)

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Name/Title: Hubie Payne, Vice President, Worldwide Quality

Date: 6/20/2022

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