



IHS Markit has added the following environmental document to the active parts as mentioned in the document from the Onsemi as of 17-January-2022

Thank You.

Compliance with REACH

REACH (**R**egistration, **E**valuation, **A**uthorization and **R**estriction of **C**hemical substances) is an European Community Regulation on chemicals and their safe use (EC 1907/2006). The regulation entered into force on June 1st 2007.

onsemi supports the basic aim of REACH in improving the protection of human health and the environment through the better and earlier identification of the intrinsic properties of chemical substances. **onsemi** meets all applicable REACH requirements and is committed to provide our customers with information about substances in its products as required.

Under REACH, registration provision is applicable to manufacture or import of chemicals and does not apply to onsemi's EU semiconductor manufacturing operations. It is anticipated that substances used in electronic products will be registered by raw material manufacturers within the supply chain.

onsemi products are "articles" as defined in REACH Article 3(3) and do not release substances under their normal use. Suppliers of articles must provide recipients with information on Substances of Very High Concern (SVHC) if those are present above a concentration limit of 0.1 % on an article level.

onsemi products do not contain the Substances of Very High Concern, included in the Candidate List of substances of very high concern, issued by European Chemical Agency (ECHA), last updated on 17th January 2022, with exception of Lead, which may be contained in some products (please see note **below Table1).

Candidate List of Substances of Very High Concern (SVHC)

Table 1

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	10/28/2008
	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	10/28/2008
	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	10/28/2008
	Anthracene	204-371-1	120-12-7	10/28/2008
	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	10/28/2008
	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	10/28/2008
	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	10/28/2008
	Diarsenic pentaoxide	215-116-9	1303-28-2	10/28/2008
	Diarsenic trioxide	215-481-4	1327-53-3	10/28/2008
	Dibutyl phthalate (DBP)	201-557-4	84-74-2	10/28/2008
	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	247-148-4 and 221-695-9	25637-99-4 and 3194-55-6	10/28/2008
Names of the major diastereoisomers identified:	Alpha-hexabromocyclododecane	-	134237-50-6	10/28/2008
	Beta-hexabromocyclododecane		134237-51-7	10/28/2008
	Gamma-hexabromocyclododecane		134237-52-8	10/28/2008
	Lead hydrogen arsenate	232-064-2	7784-40-9	10/28/2008
Sodium dichromate	Sodium dichromate- dihydrate	234-190-3	7789-12-0	10/28/2008
	Sodium dichromate		10588-01-9	10/28/2008

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	Triethyl arsenate	427-700-2	15606-95-8	10/28/2008
	Cobalt dichloride	231-589-4	7646-79-9	10/28/2008
	2,4-Dinitrotoluene	204-450-0	121-14-2	01/13/2010
	Anthracene oil	292-602-7	90640-80-5	01/13/2010
	Anthracene oil, anthracene paste	292-603-2	90640-81-6	01/13/2010
	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	01/13/2010
	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	01/13/2010
	Anthracene oil, anthracene-low	292-604-8	90640-82-7	01/13/2010
	Diisobutyl phthalate	201-553-2	84-69-5	01/13/2010
	Lead chromate	231-846-0	7758-97-6	01/13/2010
	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	01/13/2010
	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	01/13/2010
	Pitch, coal tar, high temp.	266-028-2	65996-93-2	01/13/2010
	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	01/13/2010
	Acrylamide	201-173-7	79-06-1	03/30/2010
	Ammonium dichromate	232-143-1	7789-09-5	06/18/2010
	Boric acid	234-343-4 (233-139-2)	11113-50-1 (10043-35-3)	06/18/2010
Disodium tetraborate, anhydrous	Disodium tetraborate, decahydrate		1303-96-4	06/18/2010
	Disodium tetraborate, pentahydrate	215-540-4	12179-04-3	
	Disodium tetraborate, anhydrous		1330-43-4	
	Potassium chromate	232-140-5	7789-00-6	06/18/2010
	Potassium dichromate	231-906-6	7778-50-9	06/18/2010
	Sodium chromate	231-889-5	7775-11-3	06/18/2010
	Tetraboron Disodium Heptaoxide, hydrate	235-541-3	12267-73-1	06/18/2010
	Trichloroethylene	201-167-4	79-01-6	06/18/2010
	2-Ethoxyethanol	203-804-1	110-80-5	12/15/2010
	2-Methoxyethanol	203-713-7	109-86-4	12/15/2010
Acids generated from chromium trioxide and their oligomers.	Chromic acid	231-801-5	7738-94-5	12/15/2010
	Dichromic acid	236-881-5	13530-68-2	
	Chromium trioxide	215-607-8	1333-82-0	12/15/2010
	Cobalt(II) carbonate	208-169-4	513-79-1	12/15/2010
	Cobalt(II) diacetate	200-755-8	71-48-7	12/15/2010
	Cobalt(II) dinitrate	233-402-1	10141-05-6	12/15/2010
	Cobalt(II) sulphate	233-334-2	10124-43-3	12/15/2010
	2-Ethoxyethyl acetate	203-839-2	111-15-9	06/20/2011
	Strontium chromate	232-142-6	7789-06-2	06/20/2011
	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	06/20/2011
	Hydrazine	206-114-9	302-01-2	06/20/2011
	Hydrazine monohydrate		7803-57-8	
	1-Methyl-2-pyrrolidone	212-828-1	872-50-4	06/20/2011
	1,2,3-Trichloropropane	202-486-1	96-18-4	06/20/2011
	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	06/20/2011

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
Zirconia Aluminosilicate Refractory Ceramic Fibres	a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges	650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008	-	12/19/2011
	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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight		-	
	Calcium arsenate	231-904-5	7778-44-1	12/19/2011
	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	12/19/2011
Aluminosilicate Refractory Ceramic Fibres	a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges	650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008	-	12/19/2011
	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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight		-	
	Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	12/19/2011
	Lead dipicrate	229-335-2	6477-64-1	12/19/2011
	N,N-dimethylacetamide	204-826-4	127-19-5	12/19/2011
	Arsenic acid	231-901-9	7778-39-4	12/19/2011
	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	12/19/2011
	Trilead diarsenate	222-979-5	3687-31-8	12/19/2011
	1,2-dichloroethane	203-458-1	107-06-2	12/19/2011
	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	12/19/2011
	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	12/19/2011
	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	12/19/2011
	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	12/19/2011
	Lead diazide, Lead azide	236-542-1	13424-46-9	12/19/2011
	Lead styphnate	239-290-0	15245-44-0	12/19/2011
	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	12/19/2011
	Phenolphthalein	201-004-7	77-09-8	12/19/2011
	Dichromium tris(chromate)	246-356-2	24613-89-6	12/19/2011
	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0	06/18/2012
	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	06/18/2012
	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	06/18/2012
	Diboron trioxide	215-125-8	1303-86-2	06/18/2012
	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	06/18/2012
	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)]	209-218-2	561-41-1	06/18/2012
	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	
	Formamide	200-842-0	75-12-7	06/18/2012
	[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)]	208-953-6	548-62-9	06/18/2012
	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	06/18/2012

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	[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)]	219-943-6	2580-56-5	06/18/2012
	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane- 2,4,6-trione (TGIC)	219-514-3	2451-62-9	06/18/2012
	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	06/18/2012
	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	12/19/2012
	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	12/19/2012
	Henicosfluoroundecanoic acid	218-165-4	2058-94-8	12/19/2012
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	[1] Hexahydromethylphthalic anhydride	247-094-1	25550-51-0	12/19/2012
	[2] Hexahydro-4-methylphthalic anhydride	243-072-0	19438-60-9	
	[3] Hexahydro-1-methylphthalic anhydride	256-356-4	48122-14-1	
	[4] Hexahydro-3-methylphthalic anhydride	260-566-1	57110-29-9	
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	[1] Cyclohexane-1,2-dicarboxylic anhydride	201-604-9	85-42-7	12/19/2012
	[2] Cis-cyclohexane-1,2-dicarboxylic anhydride	236-086-3	13149-00-3	
	[3] Trans-cyclohexane-1,2-dicarboxylic anhydride	238-009-9	14166-21-3	
	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	12/19/2012
	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	12/19/2012
	Lead dinitrate	233-245-9	10099-74-8	12/19/2012
	Silicic acid, lead salt	234-363-3	11120-22-2	12/19/2012
	4-Aminoazobenzene	200-453-6	60-09-3	12/19/2012
	Lead titanium zirconium oxide	235-727-4	12626-81-2	12/19/2012
	Lead monoxide (lead oxide)	215-267-0	1317-36-8	12/19/2012
	o-Toluidine	202-429-0	95-53-4	12/19/2012
	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	12/19/2012
	Silicic acid (H ₂ Si ₂ O ₅), 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]	272-271-5	68784-75-8	12/19/2012
	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	12/19/2012
	Furan	203-727-3	110-00-9	12/19/2012
	N,N-dimethylformamide	200-679-5	68-12-2	12/19/2012
	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering welldefined substances and UVCB substances, polymers and homologues]	-	-	12/19/2012
	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]	-	-	12/19/2012
	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	12/19/2012
	Diethyl sulphate	200-589-6	64-67-5	12/19/2012
	Dimethyl sulphate	201-058-1	77-78-1	12/19/2012
	Lead oxide sulfate	234-853-7	12036-76-9	12/19/2012
	Lead titanium trioxide	235-038-9	12060-00-3	12/19/2012
	Acetic acid, lead salt, basic	257-175-3	51404-69-4	12/19/2012
	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	12/19/2012

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	Bis(pentabromophenyl) ether [DecaBDE]	214-604-9	1163-19-5	12/19/2012
	N-methylacetamide	201-182-6	79-16-3	12/19/2012
	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	12/19/2012
	1,2-Diethoxyethane	211-076-1	629-14-1	12/19/2012
	Tetralead trioxide sulphate	235-380-9	12202-17-4	12/19/2012
	N-pentyl-isopentylphthalate	-	776297-69-9	12/19/2012
	Dioxobis(stearato)trilead	235-702-8	12578-12-0	12/19/2012
	Tetraethyllead	201-075-4	78-00-2	12/19/2012
	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	12/19/2012
	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	12/19/2012
	Tricosafuorododecanoic acid	206-203-2	307-55-1	12/19/2012
	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	12/19/2012
	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	12/19/2012
	Methoxyacetic acid	210-894-6	625-45-6	12/19/2012
	4-methyl-m-phenylenediamine (toluene-2,4- diamine)	202-453-1	95-80-7	12/19/2012
	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	12/19/2012
	Trilead dioxide phosphonate	235-252-2	12141-20-7	12/19/2012
	o-aminoazotoluene	202-591-2	97-56-3	12/19/2012
	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	12/19/2012
	4,4'-oxydianiline and its salts	202-977-0	101-80-4	12/19/2012
	Orange lead (lead tetroxide)	215-235-6	1314-41-6	12/19/2012
	Biphenyl-4-ylamine	202-177-1	92-67-1	12/19/2012
	Diisopentylphthalate	210-088-4	605-50-5	12/19/2012
	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	12/19/2012
	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	12/19/2012
	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	12/19/2012
	Lead cyanamidate	244-073-9	20837-86-9	12/19/2012
	Cadmium	231-152-8	7440-43-9	06/20/2013
	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	06/20/2013
	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	06/20/2013
	Dipentyl phthalate (DPP)	205-017-9	131-18-0	06/20/2013
	Cadmium oxide	215-146-2	1306-19-0	06/20/2013
	Cadmium sulphide	215-147-8	1306-23-6	12/16/2013
	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	12/16/2013
	Dihexyl phthalate	201-559-5	84-75-3	12/16/2013
	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	12/16/2013
	Trixylyl phosphate	246-677-8	25155-23-1	12/16/2013
	Disodium 3,3'-[[1,1'-biphenyl]-4,4'- diylbis(azo)]bis(4-aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	12/16/2013
	Lead di(acetate)	206-104-4	301-04-2	12/16/2013
	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	06/16/2014
	Sodium perborate; perboric acid, sodium salt	239-172-9	-	06/16/2014
		234-390-0		
	Sodium peroxometaborate	231-556-4	7632-04-4	06/16/2014

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	Cadmium chloride	233-296-7	10108-64-2	06/16/2014
	Cadmium Sulphate	233-331-6	10124-36-4	12/17/2014
			31119-53-6	
	Cadmium fluoride	232-222-0	7790-79-6	12/17/2014
	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	12/17/2014
	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	12/17/2014
	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	12/17/2014
	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	12/17/2014
	Bis(2-ethylhexyl) phthalate (DEHP) as a substance of very high concern because of its endocrine disrupting properties which cause probable serious effects to human health and the environment which give rise to an equivalent level of concern to those of cmr1 and pbt/vpvb2 substances adopted	204-211-0	117-81-7	12/17/2014
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0	68515-51-5	06/15/2015
		272-013-1	68648-93-1	
	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 comb. thof]	-	-	06/15/2015
	1,3-propanesultone	214-317-9	1120-71-4	12/17/2015
	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	12/17/2015
	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	12/17/2015
	Nitrobenzene	202-716-0	98-95-3	12/17/2015
	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1	12/17/2015
			21049-39-8	
			4149-60-4	
	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	06/20/2016
	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	01/12/2017
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	Nonadecafluorodecanoic acid	206-400-3	335-76-2	01/12/2017
	Decanoic acid, nonadecafluoro-, sodium salt	-	3830-45-3	01/12/2017
	Ammonium nonadecafluorodecanoate	221-470-5	3108-42-7	01/12/2017
	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	-	-	01/12/2017
	4,4'-isopropylidenediphenol	201-245-8	80-05-7	01/12/2017
	Perfluorohexane-1-sulphonic acid and its salts	-	-	07/07/2017
	Benz[a]anthracene	200-280-6	56-55-3	01/15/2018
			1718-53-2	
	Cadmium carbonate	208-168-9	513-78-0	01/15/2018
	Cadmium hydroxide	244-168-5	21041-95-2	01/15/2018
	Cadmium nitrate	233-710-6	10022-68-1	01/15/2018
			10325-94-7	

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	Chrysene	205-923-4	218-01-9	01/15/2018
			1719-03-5	
	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus™") covering any of its individual anti- and syn- isomers or any combination thereof	236-948-9	13560-89-9	01/15/2018
		-	135821-74-8	
		-	135821-03-3	
	Reaction products of 1,3,4-thiadiazolidine-2,5- dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with ≥0.1% w/w 4-heptylphenol, branched and linear	-	-	01/15/2018
	Terphenyl, hydrogenated	262-967-7	61788-32-7	06/27/2018
	Octamethylcyclotetrasiloxane	209-136-7	556-67-2	06/27/2018
	Lead**	231-100-4	7439-92-1	06/27/2018
	Ethylenediamine EDA	203-468-6	107-15-3	06/27/2018
	Dodecamethylcyclohexasiloxane D6	208-762-8	540-97-6	06/27/2018
	Disodium octaborate	234-541-0	12008-41-2	06/27/2018
	Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	06/27/2018
	Decamethylcyclopentasiloxane D5	208-764-9	541-02-6	06/27/2018
	Benzo[ghi]perylene	205-883-8	191-24-2	06/27/2018
	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	209-008-0	552-30-7	06/27/2018
	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (Bisphenol P)	401-720-1	6807-17-6	01/15/2019
	Benzo[k]fluoranthene	205-916-6	207-08-9	01/15/2019
	Fluoranthene	205-912-4	206-44-0	01/15/2019
	Phenanthrene	201-581-5	85-01-8	01/15/2019
	Pyrene	204-927-3	129-00-0	01/15/2019
	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	01/15/2019
	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	07/16/2019
	4-tert-butylphenol	202-679-0	98-54-4	07/16/2019
	2-methoxyethyl acetate	203-772-9	110-49-6	07/16/2019
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	-	07/16/2019
	Perfluorobutane sulfonic acid (PFBS) and its salts			01/16/2020
	Diisohexyl phthalate	276-090-2	71850-09-4	01/16/2020
	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	01/16/2020
	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	01/16/2020
	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	06/25/2020
	butyl 4-hydroxybenzoate	202-318-7	94-26-8	06/25/2020
	2-methylimidazole	211-765-7	693-98-1	06/25/2020
	1-vinylimidazole	214-012-0	1072-63-5	06/25/2020

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	19/01/2021
Diocetyl 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	diocetyl dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.	-	-	19/01/2021
	Stannane, dioctyl-, bis(coco acyloxy) derivs.	293-901-5	91648-39-4	
	Diocetyl dilaurate	222-883-3	3648-18-8	
	1,4-dioxane	204-661-8	123-91-1	08/07/2021
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)	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	-	1522-92-5	08/07/2021
	2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	253-057-0	36483-57-5	
	2,2-bis(bromomethyl)propane-1,3-diol (BMP)	221-967-7	3296-90-0	
	2,3-dibromo-1-propanol (2,3-DBPA)	202-480-9	96-13-9	
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	(2R)-3-(4-tert-butylphenyl)-2-methylpropanal	-	75166-31-3	08/07/2021
	2-(4-tert-butylbenzyl)propionaldehyde	201-289-8	80-54-6	
	(2S)-3-(4-tert-butylphenyl)-2-methylpropanal	-	75166-30-2	
	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	08/07/2021
	glutaral	203-856-5	111-30-8	08/07/2021
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	Alkanes, C14-16, chloro	-	1372804-76-6	08/07/2021
	Alkanes, C14-17, chloro	287-477-0	85535-85-9	
	di-, tri- and tetrachlorotetradecane	950-299-5	-	
	Tetradecane, chloro derivs.	-	198840-65-2	
Orthoboric acid, sodium salt	Boric acid (H3BO3), sodium salt, hydrate	-	25747-83-5	08/07/2021
	Boric acid (H3BO3), disodium salt	-	22454-04-2	
	Trisodium orthoborate	238-253-6	14312-40-4	
	Boric acid, sodium salt	215-604-1	1333-73-9	
	Orthoboric acid, sodium salt	237-560-2	13840-56-7	
	Boric acid (H3BO3), sodium salt (1:1)	-	14890-53-0	
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, 4-dodecyl, branched	-	210555-94-5	08/07/2021
	4-isododecylphenol	-	27459-10-5	
	Phenol, 4-isododecyl	-	27147-75-7	
	Phenol, dodecyl-, branched	310-154-3	121158-58-5	
	Phenol, (tetrapropenyl) derivatives	-	74499-35-7	
	Phenol, tetrapropylene	-	57427-55-1	
	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17/01/2022
	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8	17/01/2022

Substance group	Substance name	EC No.	CAS No.	Date of Inclusion
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	17/01/2022
(±)-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)	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	1782069-81-1	17/01/2022
	(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	253-242-6	36861-47-9	
	(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	-	852541-30-1	
	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	852541-21-0	

Note :

*Diboron trioxide was added to REACH as a Substance of Very High Concern (SVHC) on June 18, 2012. **onsemi** products in glass encapsulated packages may list Diboron trioxide as a constituent material in the glass encapsulation, in a concentration greater than 0.1%; REACH classifies; glass as a substance of unknown or variable composition, complex reaction products or biological matter (UVCB) containing the elements silica, calcium, sodium, potassium, magnesium and other cautions bonded together with oxygen. In glass, these elements are bonded into a non-crystalline molecular structure with completely different properties than the starting material; Therefore Diboron trioxide is not present in the finished **onsemi** product and does not require notification of the presence of a SVHC

Lead, which was added to a Candidate List of Substance of Very High Concern (SVHC) on June 27th, 2018, may be contained in some of **onsemi products. In such cases the lead is RoHS exempted with 7a (lead in high melting temperature type die attach solders) or 7c (lead in glass or ceramic). If present, lead is listed in a material declaration.

onsemi products do not contain any of the Substances included in the Authorization List, issued by European Chemical Agency (ECHA).

REACH Annex XIV: REACH Authorization list

Table 2.

Substance name	EC No.	CAS No.	Entry No.	Latest application date	Sunset Date
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	1	02/21/2013	08/21/2014
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2	02/21/2013	08/21/2014
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified show/hide	-	-	3	02/21/2014	08/21/2015
Hexabromocyclododecane	247-148-4	25637-99-4			
1,2,5,6,9,10-hexabromocyclododecane	221-695-9	3194-55-6			
alpha-hexabromocyclododecane	-	134237-50-6			
beta-hexabromocyclododecane	-	134237-51-7			
gamma-hexabromocyclododecane	-	134237-52-8			
Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	4	08/21/2013	02/21/2015
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	5	08/21/2013	02/21/2015
Dibutyl phthalate (DBP)	201-557-4	84-74-2	6	08/21/2013	02/21/2015
Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	7	08/21/2013	02/21/2015
Diarsenic trioxide	215-481-4	1327-53-3	8	11/21/2013	05/21/2015
Diarsenic pentaoxide	215-116-9	1303-28-2	9	11/21/2013	05/21/2015
Lead chromate	231-846-0	7758-97-6	10	11/21/2013	05/21/2015
Lead sulfochromate yellow	215-693-7	1344-37-2	11	11/21/2013	05/21/2015
Lead chromate molybdate sulfate red	235-759-9	12656-85-8	12	11/21/2013	05/21/2015
Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	13	02/21/2014	08/21/2015
2,4-dinitrotoluene (2,4-DNT)	204-450-0	121-14-2	14	02/21/2014	08/21/2015
Trichloroethylene	201-167-4	79-01-6	15	10/21/2014	04/21/2016
Chromium trioxide	215-607-8	1333-82-0	16	03/21/2016	09/21/2017
Acids generated from chromium trioxide and their oligomers show/hide:	-	-	17	03/21/2016	09/21/2017
Dichromic acid	236-881-5	13530-68-2			
Oligomers of chromic acid and dichromic acid	-	-			
Chromic acid	231-801-5	7738-94-5			
Sodium dichromate	234-190-3	10588-01-9	18	03/21/2016	09/21/2017
Sodium dichromate		7789-12-0			
Potassium dichromate	231-906-6	7778-50-9	19	03/21/2016	09/21/2017
Ammonium dichromate	232-143-1	05-09-89	20	03/21/2016	09/21/2017
Potassium chromate	232-140-5	7789-00-6	21	03/21/2016	09/21/2017
Sodium chromate	231-889-5	03-11-75	22	03/21/2016	09/21/2017
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	23	02/22/2016	08/22/2017
Arsenic acid	231-901-9	7778-39-4	24	02/22/2016	08/22/2017
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	25	02/22/2016	08/22/2017
1,2-dichloroethane (EDC)	203-458-1	107-06-2	26	05/22/2016	11/22/2017
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	27	05/22/2016	11/22/2017

Substance name	EC No.	CAS No.	Entry No.	Latest application date	Sunset Date
Dichromium tris(chromate)	246-356-2	24613-89-6	28	07/22/2017	01/22/2019
Strontium chromate	232-142-6	02-06-89	29	07/22/2017	01/22/2019
Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	30	07/22/2017	01/22/2019
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	31	07/22/2017	01/22/2019
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	32	01/04/2019	07/04/2020
Diisopentyl phthalate	210-088-4	605-50-5	33	01/04/2019	07/04/2020
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	34	01/04/2019	07/04/2020
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	35	01/04/2019	07/04/2020
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	36	01/04/2019	07/04/2020
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	37	01/04/2019	07/04/2020
Dipentyl phthalate	205-017-9	131-18-0	38	01/04/2019	07/04/2020
N-pentyl-isopentylphthalate	-	776297-69-9	39	01/04/2019	07/04/2020
Anthracene oil	292-602-7	90640-80-5	40	04/04/2019	10/04/2020
Pitch, coal tar, hight-temp.	266-028-2	65996-93-2	41	04/04/2019	10/04/2020
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	42	07/04/2019	01/04/2021
4-Nonylphenol, branched and linear, ethoxylated	-	-	43	07/04/2019	01/04/2021
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	44	08/27/2021	02/27/2023
Dihexyl phthalate	201-559-5	84-75-3	45	08/27/2021	02/27/2023
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0,3$ % of dihexyl phthalate (EC No 201-559-5)	271-094-0; 272-013-1	68515-51-5; 68648-93-1	46	08/27/2021	02/27/2023
Trixylyl phosphate	246-677-8	25155-23-1	47	11/27/2021	05/27/2023
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	48	11/27/2021	05/27/2023
Sodium peroxometaborate	231-556-4	7632-04-4	49	11/27/2021	05/27/2023
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-	50	02/27/2022	08/27/2023
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	51	05/27/2022	11/27/2023
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	52	05/27/2022	11/27/2023
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	53	05/27/2022	11/27/2023

Substance name	EC No.	CAS No.	Entry No.	Latest application date	Sunset Date
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	54	05/27/2022	11/27/2023

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Name: Rastislav Drska

Title: Product Environmental Compliance Engineer

Signature :

