

Venkel Ltd. supports the goals of REACH (Registration, Evaluation, and Authorization of Chemicals) which are consistent with our own commitment towards responsible use and handling of chemicals. The European Union passed new legislation on June 1, 2007 that oversees the registration, evaluation, and authorization of particular chemicals within the European Union community. REACH requires that all existing and new substances be registered with the European Chemicals Agency (ECHA).

Venkel Ltd. acknowledges the importance of our supply chain and will do our best to minimize any disruptions in the continued delivery of our products. Venkel Ltd. will seamlessly transition through this process as we have previously done with similar legislation.

After review of the legislation and most notably the definition of an “article” as defined in EC Regulation 1907/2006, Title II, Chapter 1, Article 7.1 (a) and (b), it is within the view of Venkel Ltd. that our products are considered “articles.” However, according to the definition in §7.1 (b), registration of an article is only required if it contains a named substance that “is intended to be released under normal or reasonably foreseeable conditions of use,” Venkel Ltd.’s analysis is that these products constitute non-registerable articles for their intended use.

We continue to monitor any addition of new chemicals to the SVHC list. To our knowledge, and based upon the information available, Venkel does have one or more articles that contain substances of very high concern (SVHC) as defined in Article 33 (1) and (2)EC Title VII, Chapter 1 Article 57 in the amended Candidate List above a limit of 0.10% w/w and since Venkel Ltd. has reported and documented all applicable REACH Substances, all products supplied are compliant with all stated REACH regulations. The substance above the 0.10% threshold is Lead with CAS Number 7439-92-1 (Page 7) and the product series that contain Lead above the 0.10% threshold are:

CR, CRN, CRS, TRCR, HMCR, NTC, HPCR, SWCR, PWCR, and HVCR

Please see the following pages for the most recent list of 224 SVHCs.

Revised June, 2022

## SVHC 224 CANDIDATE LIST (06/23/22)

SUBSTANCE NAME	CAS NUMBER
Cadmium	7440-43-9
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Pentadecafluorooctanoic acid (PFOA)	335-67-1
Dipentyl phthalate (DPP)	131-18-0
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]	---
Cadmium oxide	1306-19-0
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 19438-60-9 48122-14-1 57110-29-9
6-methoxy-m-toluidine (p-cresidine)	120-71-8
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7 13149-00-3 14166-21-3
Pyrochlore, antimony lead yellow	8012-00-8
Henicosaflluoroundecanoic acid	2058-94-8
4-Aminoazobenzene	60-09-3
Silicic acid, lead salt	11120-22-2
Lead titanium zirconium oxide	12626-81-2
Lead monoxide (lead oxide)	1317-36-8
o-Toluidine	95-53-4
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
Dibutyltin dichloride (DBTC)	683-18-1
Lead bis(tetrafluoroborate)	13814-96-5
Lead dinitrate	10099-74-8
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
Trilead bis(carbonate)dihydroxide	1319-46-6
4,4'-methylenedi-o-toluidine	838-88-0
Diethyl sulphate	64-67-5
Dimethyl sulphate	77-78-1
N,N-dimethylformamide	68-12-2
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated[covering well-defined substances and UVCB substances, polymers and homologues]	---
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]	---

## SVHC 224 CANDIDATE LIST (06/23/22)

SUBSTANCE NAME	CAS NUMBER
Furan	110-00-9
Lead oxide sulfate	12036-76-9
Lead titanium trioxide	12060-00-3
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
1,2-Diethoxyethane	629-14-1
N-methylacetamide	79-16-3
Tetralead trioxide sulphate	12202-17-4
Acetic acid, lead salt, basic	51404-69-4
[Phthalato(2-)]dioxotrilead	69011-06-9
Tetraethyllead	78-00-2
N-pentyl-isopentylphthalate	776297-69-9
Pentalead tetraoxide sulphate	12065-90-6
Heptacosafuorotetradecanoic acid	376-06-7
Tricosafuorododecanoic acid	307-55-1
1-bromopropane (n-propyl bromide)	106-94-5
Dioxobis(stearato)trilead	12578-12-0
Pentacosafuorotridecanoic acid	72629-94-8
Methoxyacetic acid	625-45-6
Methyloxirane (Propylene oxide)	75-56-9
Trilead dioxide phosphonate	12141-20-7
o-aminoazotoluene	97-56-3
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
Diisopentylphthalate	605-50-5
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
Biphenyl-4-ylamine	92-67-1
Fatty acids, C16-18, lead salts	91031-62-8
Orange lead (lead tetroxide)	1314-41-6
4,4'-oxydianiline and its salts	101-80-4
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
Sulfurous acid, lead salt, dibasic	62229-08-7
Lead cyanamidate	20837-86-9
a,a-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (I <sup>2</sup> -TGIC)	59653-74-6
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
Diboron trioxide	1303-86-2

SSVHC 224 CANDIDATE LIST (06/23/22)

SUBSTANCE NAME	CAS NUMBER
1,2-bis(2-methoxyethoxy)ethane (TEGDME)	112-49-2
Formamide	75-12-7
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol[with 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1
Lead(II) bis(methanesulfonate)	17570-76-2
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)[with 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
Phenolphthalein	77-09-8
N,N-dimethylacetamide	127-19-5
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
Lead diazide, Lead azide	13424-46-9
Lead dipicrate	6477-64-1
1,2-dichloroethane	107-06-2
Calcium arsenate	7778-44-1
Dichromium tris(chromate)	24613-89-6
2-Methoxyaniline	90-04-0
Pentazinc chromate octahydroxide	49663-84-5
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 (Åµm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	---
Arsenic acid	7778-39-4
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
Formaldehyde, oligomeric reaction products with aniline	25214-70-4
Lead styphnate	15245-44-0
Bis(2-methoxyethyl) phthalate	117-82-8
Trilead diarsenate	3687-31-8
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	---

**SVHC 224 CANDIDATE LIST (06/23/22)**

SUBSTANCE NUMBER	CAS NUMBER
Bis(2-methoxyethyl) ether	111-96-6
2,2'-dichloro-4,4'-methylenedianiline	101-14-4
Cobalt dichloride	7646-79-9
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
Strontium chromate	7789-06-2
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4
1-Methyl-2-pyrrolidone	872-50-4
1,2,3-Trichloropropane	96-18-4
2-Ethoxyethyl acetate	111-15-9
Hydrazine	302-01-2 7803-57-8
Cobalt(II) diacetate	71-48-7
2-Ethoxyethanol	110-80-5
Cobalt(II) sulphate	10124-43-3
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
2-Methoxyethanol	109-86-4
Chromium trioxide	1333-82-0
Cobalt(II) carbonate	513-79-1
Cobalt(II) dinitrate	10141-05-6
Trichloroethylene	79-01-6
Potassium dichromate	7778-50-9
Tetraboron disodium heptaoxide, hydrate	12267-73-1
Boric acid	10043-35-3 11113-50-1
Ammonium dichromate	7789-09-5
Sodium chromate	7775-11-3
Disodium tetraborate, anhydrous	1303-96-4 1334-43-4 12179-04-3
Potassium chromate	7789-00-6
Acrylamide	79-06-1
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
2,4-Dinitrotoluene	121-14-2
Anthracene oil	90640-80-5
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
Anthracene oil, anthracene-low	90640-82-7
Diisobutyl phthalate	84-69-5

**SVHC 224 CANDIDATE LIST (06/23/22)**

SUBSTANCE NAME	CAS NUMBER
Tris(2-chloroethyl)phosphate	115-96-8
Lead chromate	7758-97-6
Anthracene oil, anthracene paste	90640-81-6
Pitch, coal tar, high temp.	65996-93-2
Anthracene oil, anthracene paste,distn. lights	91995-17-4
Lead hydrogen arsenate	7784-40-9
Benzyl butyl phthalate (BBP)	85-68-7
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7
Bis(tributyltin)oxide (TBTO)	56-35-9
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
Diarsenic trioxide	1327-53-3
Triethyl arsenate	15606-95-8
Diarsenic pentaoxide	1303-28-2
Sodium dichromate	7789-12-0 10588-01-9
Dibutyl phthalate (DBP)	84-74-2
4,4'- Diaminodiphenylmethane (MDA)	101-77-9
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
Anthracene	120-12-7
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4
Cadmium Sulphide	1306-23-6
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
Dihexyl phthalate	84-75-3
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7
Trixylyl phosphate	25155-23-1
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
Lead di(acetate)	301-04-2
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
Sodium perborate; perboric acid, sodium salt	---
Sodium peroxometaborate	7632-04-4
Cadmium chloride	10108-64-2
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
Cadmium fluoride	7790-79-6

## SVHC 224 CANDIDATE LIST (06/23/22)

SUBSTANCE NAME	CAS NUMBER
Cadmium sulphate	10124-36-4,31119-53-6
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)	68515-51-5 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 combination thereof]	---
Nitrobenzene	98-95-3
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
1,3-propanesultone	1120-71-4
Perfluorononan-1-oic-acid and its sodium and ammonium saltspropanesultone	375-95-1, 21049-39-8 4149-60-4
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8
4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7
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	---
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Decanoic acid, nonadecafluoro-, sodium salt EC no.: -   CAS no.: 3830-45-3	---
Ammonium nonadecafluorodecanoate EC no.: 221-470-5   CAS no.: 3108-42-7 Nonadecafluorodecanoic acid EC no.: 206-400-3   CAS no.: 335-76-2	---
p-(1,1-dimethylpropyl)phenol	80-46-6
Perfluorohexane-1-sulphonic acid and its salts	-
Benz[a]anthracene	56-55-3, 1718-53-2
Cadmium carbonate	513-78-0
Cadmium hydroxide	21041-95-2
Cadmium nitrate	10022-68-1, 10325-94-7
Chrysene	218-01-9, 1719-03-5
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> )	---
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	---
Octamethylcyclotetrasiloxane (D4)	556-67-2
Decamethylcyclopentasiloxane (D5)	541-02-6
Dodecamethylcyclohexasiloxane (D6)	540-97-6
Lead	7439-92-1
Disodium octaborate	12008-41-2
Benzo[ghi]perylene	191-24-2
Terphenyl hydrogenated	61788-32-7

**SVHC 224 CANDIDATE LIST (06/23/22)**

SUBSTANCE NAME	CAS NUMBER
Ethylenediamine (EDA)	107-15-3
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7
Dicyclohexyl phthalate (DCHP)	84-61-7
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
Benzo[k]fluoranthene	207-08-9
Fluoranthene	206-44-0
Phenanthrene	85-01-8
Pyrene	129-00-0
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8
2-methoxyethyl acetate	110-49-6
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	---
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	---
4-tert-butylphenol	98-54-4
Perfluorobutane sulfonic acid (PFBS) and its salts	---
Diisohexyl phthalate	71850-09-4
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1
Dibutylbis(pentane-2,4-dionato-0,0')tin	22673-19-4
Butyl 4-hydroxybenzoate	94-26-8
2-methylimidazole	693-98-1
1-vinylimidazole	1072-63-5
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8
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. Not registered under REACH as a group, however Diocetyl tin is registered as a mono-constituent form of the substance dioctyl tin dilaurate as an additive in the production of plastics and tires.	---
1,4-dioxane	123-91-1 (204-661-8)
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)	3296-90-0, 36483-57-5/ 1522-92-5, 96-13-9 (221-967-7, 253-057-0/ 202-480-9, -)
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	---
4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7 (201-025-1)
Glutaral	111-30-8 (203-856-5)
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]	---
Orthoboric acid, sodium salt	13840-56-7(237-560-2)
Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	---



## SVHC 224 CANDIDATE LIST (06/23/22)

SUBSTANCE NAME	CAS NUMBER
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1
tris(2-methoxyethoxy)vinylsilane	1067-53-4
(±)-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)	-
S-(tricyclo(5.2.1.0 <sup>2,6</sup> )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
N-(hydroxymethyl)acrylamide	924-42-5